

Let's protect our earth



State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF HAZARDOUS WASTE MANAGEMENT

John J. Trela, Ph.D., Director

401 East State St.

CN 028

Trenton, N.J. 08625

609 - 633 - 1408

LaVern R. Heble
OxyChem-Environment & Safety
Occidental Chemical Center
360 Rainbow Boulevard South
Box 728
Niagara Falls, New York 14302

DEC 29 1987

Dear Ms. Heble:

RE: In the Matter of Diamond Shamrock Chemicals Company
Administrative Consent Order

This is in response to your letter dated October 26, 1987, to Lance R. Miller regarding the effect that the merger of Occidental Electrochemicals Corporation (formerly Diamond Shamrock Chemicals Company) into Occidental Chemical Corporation will have on the above referenced Administrative Consent Order ("ACO").

The Diamond Shamrock ACO remains in full force and effect and no modifications/amendments are required at this time. However, be advised that the Department considers the terms and conditions of the Diamond Shamrock ACO binding upon Occidental Chemical Corporation as the successor in interest to Diamond Shamrock Chemicals Company pursuant to Paragraph 16.G of the Diamond Shamrock ACO.

Should you have any questions concerning this matter please contact Mr. Michael Mandracchia of my staff at 609-633-7141.

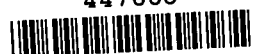
Sincerely,

Thomas R. Kearns

Thomas R. Kearns, Chief
Bureau of ECRA Applicability
and Compliance

E24:kc

447668





Occidental Chemical Corporation

December 15, 1987

Mr. Michael DeTalvo, Supervisor
Bureau of ECRA Applicability and Compliance
New Jersey Department of Environmental Protection
CN028
Trenton, New Jersey 08625

Re: Environmental Cleanup Responsibility Act (ECRA)
Diamond Shamrock Chemical Co.
86334, 86335, 86336, 86337

Dear Mr. DeTalvo:

The purpose of this letter is to advise you that the corporate reorganization described in my letter to Mr. Tom Kearns dated October 12, 1987 was completed on November 30, 1987. As of that date, OEC ceased to exist as a legal entity, and all of its properties, assets and liabilities have been assigned by operation of law to the OCC legal entity.

Yours truly,

LaVern R. Heble
Manager - Environmental Projects

LRH:blp
5603E-59

cc: Lance R. Miller

OxyChem

Environment & Safety

Occidental Chemical Center

360 Rainbow Boulevard South, Box 728, Niagara Falls, New York 14302 716-286-3000

Let's protect our earth



State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF HAZARDOUS WASTE MANAGEMENT

John J. Trela, Ph.D., Acting Director

401 East State St.

CN 028

Trenton, N.J. 08625

609 - 633 - 1408

23 FEB 1987

Mr. Thomas Horvath
Oxy Process Chemicals, Inc.
Berry Avenue and Route 17
Carlstadt, N.J. 07072

Dear Mr. Horvath:

RE: Diamond Shamrock Chemicals Company, Change of Ownership

On October 27, 29 and 30, Occidental Electro Chemicals Corp. informed the NJDEP of a transfer of ownership for the Diamond Shamrock plants in Carlstadt, Harrison and Jersey City, New Jersey from the Diamond Shamrock Chemicals Company to Oxy Process Chemicals Inc.

According to the New Jersey Administrative Code, N.J.A.C. 7:26-12.3(c)4, any changes in the ownership or operational control of a facility must be approved in advance by the Department.

Therefore Oxy Process Chemicals, Inc., is hereby required to submit within thirty (30) days from the date of this letter an Alternative Information Statement for the plants in New Jersey effected by the change in ownership. For your convenience, enclosed you will find this form.

Please be also aware that as stated in N.J.A.C. 7:26-12.3, when a transfer of ownership or operational control of a facility occurs, the old owner or operator shall comply with the hazardous waste facility financial requirements of N.J.A.C. 7:26-9.10 and 9.11, until the new owner or operator has demonstrated to the Department that it is complying with these sections. Upon demonstration to the Department by the new owner or operator of compliance with these requirements, the Department shall notify the old owner or operator in writing that it no longer needs to comply with these sections as of the date of demonstration.

23 FEB 1987

Please be advised this matter has been referred to the Department's Enforcement group for appropriate action for failure to demonstrate compliance with the aforementioned requirements in a timely fashion. If you have any questions, contact George Mejia from my staff at (609) 292-9880.

Very truly yours,

Ernest J. Kuhlwein, Jr., Acting Chief
Bureau of Hazardous Waste Engineering

EP35/sg

Enc.

c: Lori Amato, USEPA - Region II
Joe Galley, ECRA
Earlene Baumunk, BHWE

CARLSTADT PLANT

DATE: January 1987

APR 1 1987

MAR 27 1987

STATE TAX

HAZARDOUS SUBSTANCE REPORT

PRODUCT CODE	PRODUCT NAME	LBS. PER GAL.	POUNDS RECEIVED	NO. OF BBLs. 42 GALS BBL	COST PER LB.	\$0.04 PER BBL.	\$ 8/10 OF 1% OF COST
CA2X	ACETIC ANHYDRIDE	9.02	-----	-----	-----	-----	-----
CA4A	AQUA AMMONIA	7.50	-----	-----	-----	-----	-----
CF3E	FORMALDEHYDE	9.26	-----	-----	-----	-----	-----
CN2A	NAPHTHALENE PET.	8.33	586120	1675	.26	67.00	1219.13
CN2O	NAPHTHALENE CRUDE	8.05	210460	622	.16	24.88	269.39
CB3P	PHENOL U.S.P.	8.76	-----	-----	-----	-----	-----
CP3D	POT. HYDROXIDE	12.12	-----	-----	-----	-----	-----
CS4I	SOD. HYDROXIDE	12.76	421510	787	.0765	31.48	257.96
CA2T	OLEUM 20%	15.96	176620	263	.039	10.52	55.11
CA2K	SULFURIC ACID 98	15.40	497060	768	.0368	30.72	146.33
CO4N	ORTHO CRESOL SYNTH.	8.8	-----	-----	-----	-----	-----
CX2A	XYLENE	7.3	48337.75	149	.0733	5.96	28.35
	FUEL OIL #	7.702	-----	-----	-----	-----	-----
			-----	-----	-----	-----	-----

4543

181.72

2028.23

TOTAL:

T. Stepien

3/19/87

RECEIVED

MAR 27 1987

CARLSTADT PLANT

DATE: FEBRUARY 1987

STATE TAX

HAZARDOUS SUBSTANCE REPORT

PRODUCT CODE	PRODUCT NAME	LBS. PER GAL.	POUNDS RECEIVED	NO. OF BBLs. 42 GALS BBL	COST PER LB.	\$0.04 PER BBL.	\$ 8/10 OF 1% OF COST
CA2X	ACETIC ANHYDRIDE	9.02	-----	-----	-----	-----	-----
CA4A	AQUA AMMONIA	7.50	-----	-----	-----	-----	-----
CF3E	FORMALDEHYDE	9.26	-----	-----	-----	-----	-----
CN2A	NAPHTHALENE PET.	8.33	484210	1384	.26	55.36	1007.16
CN2O	NAPHTHALENE CRUDE	8.05	195760	579	.14	23.16	219.25
CB3P	PHENOL U.S.P.	8.76	34960	95	.21	3.80	58.73
CP3D	POT. HYDROXIDE	12.12	82510	162	.14	6.48	92.41
CS4I	SOD. HYDROXIDE	12.76	419020	782	.0765	31.28	256.44
CA2T	OLEUM 20%	15.96	103620	155	.04	6.20	33.16
CA2K	SULFURIC ACID 98	15.40	742740	1148	.0368	45.92	218.66
CO4N	ORTHO CRESOL SYNTH.	8.8	-----	-----	-----	-----	-----
CX2A	XYLENE	7.3	39100	128	.115	5.10	35.97
	FUEL OIL # 6	7.702					

4433

177.32

1921.78

TOTAL:

T. STEPIEN
3 19 87

CARLSTADT PLANT

MAR 27 1987

DATE: DECEMBER 1986

STATE TAX

HAZARDOUS SUBSTANCE REPORT

PRODUCT CODE	PRODUCT NAME	LBS. PER GAL.	POUNDS RECEIVED	NO. OF BBLs. 42 GALS. BBL	COST PER LB.	\$0.04 PER BBL.	\$ 8/10 OF 1% OF COST
CA2X	ACETIC ANHYDRIDE	9.02	----	----	----	----	----
CA1A	AQUA AMMONIA	7.50	----	----	----	----	----
CF3E	FORMALDEHYDE	9.26	35040	90	.0594	3.60	16.65
CN2A	NAPHTHALENE PET.	8.33	714120	2041	.26	81.64	1485.37
CN2O	NAPHTHALENE CRUDE	8.05	207040	612	.1710	24.48	283.23
CB3P	PHENOL U.S.P.	8.76	----	----	----	----	----
CP3D	POT. HYDROXIDE	12.12	42660	84	.14	3.36	47.78
CS4I	SOD. HYDROXIDE	12.76	556310	1038	.0765	41.52	340.46
CA2T	OLEUM 20%	15.96	228440	341	.039	13.64	71.27
CA2K	SULFURIC ACID 98	15.40	784640	1213	.0368	48.52	231.00
CO4N	ORTHO CRESOL SYNTH.	8.8	----	----	----	----	----
CX2A	XYLENE	7.3	30820	101	.13	4.04	32.05
	FUEL OIL # 6	7.702					

TOTAL:

5520

220.80

2507.81

T. STEPIEN
3 19 87



Occidental Chemical Corporation

DEP -
DO YOU WANT VS
TO CHANGE THE DATABASE?
EPA - PERMITS BRANCH

January 19, 1987

New Jersey Department of Environmental Protection
Division of Waste Management
CN 028
32 E. Hanover Street
Trenton, N.J. 08625

Re: Revision of Part A Application
EPA I.D. No. NJD002012219

Gentlemen:

During a recent RCRA inspection performed by the NJDEP it was brought to our attention that our Part A application did not accurately reflect the types of waste being handled by the plant. In an effort to rectify this situation, a new Part IV of RCRA Form 3 has been prepared. I have enclosed this page, in a copy of the RCRA Part A application, submitted on October 27, 1986 to cover transfer of ownership.

Please contact me at (201) 933-5222 if there are any problems or questions concerning this updating of the application.

Sincerely,

Vincent F. Bennett
Safety/Environmental Engineer

VFB:gg
cc: R. Novak

OxyChem

Process Chemicals Division

Berry Avenue At Route 17 North, Carlstadt, NJ 07072 Phone 201/933-5222

MVP-01-173237

NJ0002012219

	X	
X		
X		X
	X	
	X	

	X	
	X	
	X	
	X	
	X	

OXY PROCESS CHEMICALS, INC.

BENNETT VINCE ENV SUPERVISOR 201 933 5222

BERRY AVENUE AT ROUTE 17

CARLSTADT NJ 07072

BERRY AVENUE AT ROUTE 17

BERGEN

MUP-01-173238

CARLSTADT NJ 07072

9

Organic Chemical

2.8.4.3

Surface Active Agents

(specify)

Plastics and Resins Materials

(specify)

OXY PROCESS CHEMICALS, INC.

p

(specify)

203 854 3840

P O BOX 4020

DARIEN

CT 06820

NJ0002798

(specify)

Air Permits - See Attached

INTERIM STATUS

(specify)

A specialized proprietary chemical manufacturer serving the paper industry, the cement and concrete industry, the rubber and plastic industry, the textile industry and the oil well drilling industry.

A. NAME & OFFICIAL TITLE (Type or print)

Michael J. Rudick
Vice President

B. SIGNATURE

Michael J. Rudick

C. DATE SIGNED

10/19/86

CARLSTADT AIR PERMIT LOG

ating Certificate	Expiration Date	Operating Certificate	Expiration Date
013766	9/24/90	070203	5/02/91
013767	9/24/90	070204	5/02/91
019163	10/24/90	070205	Temp.
030482	5/04/87	070206	5/02/91
030483	5/04/87	070207	5/02/91
030484	5/04/87	070208	5/02/91
030485	5/04/87	070210	5/22/91
030486	5/04/87	070211	5/22/91
031634	3/6/88	070212	5/22/91
034494	8/8/87	070394	3/21/91
034495	8/8/87	070395	3/21/91
034496	8/08/87	070396	3/29/91
034497	8/08/87	070516	4/10/91
044657	11/24/89	070517	4/10/91
044676	1/03/90	070518	4/10/91
044953	6/12/88	070600	4/25/91
045068	7/15/91	070967	3/15/91
045069	1/08/87	071127	4/12/91
045070	6/23/86	071128	4/12/91
045071	6/23/86	071129	4/12/91
045072	7/15/86	071130	4/12/91
049361	Temp.	071131	4/12/91
061853	8/09/87	071449	5/17/91
068584	6/13/89	072557	2/23/91
068715	10/05/90	072558	3/10/91
068716	Temp.	073735	Temp.
068717	7/13/89	073736	Temp.
068718	7/18/89	073933	3/16/87
068764	7/18/89		
068765	7/18/89		
068766	7/18/89		
068767	7/18/89		
069245	7/18/89		
069546	9/25/89		
069547	9/25/89		
069984	Temp.		



HAZARDOUS WASTE PERMIT APPLICATION Consolidated Permit Program (This information is required under Section 106 of RCRA)

INJDD002012219

SPECIAL USE ONLY

DATE RECEIVED	DATE	TIME

COMMENTS

I. FIRST OR REVISED APPLICATION

Place an "X" in the appropriate box (A or B below) to indicate whether this is the first application you are submitting for your facility or a revised application. If this is your first application and you already know your facility's EPA I.D. Number, or if this is a revised application, enter your facility's EPA I.D. Number in item 1 above.

A. FIRST APPLICATION (Place an "X" below and provide the appropriate data)

1. EXISTING FACILITY (See instructions for definition of "existing" facility. Complete item below.)

2. NEW FACILITY (Complete item below.)

FOR EXISTING FACILITIES, PROVIDE THE DATE (Y., M., & DAY) OPERATION BEGAN OR THE DATE CONSTRUCTION COMMENCED (Place the date in the left)

FOR NEW FACILITIES, PROVIDE THE DATE (Y., M., & DAY) OPERA TION BEGAN OR THE DATE CONSTRUCTION COMMENCED (Place the date in the left)

B. REVISED APPLICATION (Place an "X" below and complete item 1 above)

1. FACILITY HAS INTERIM STATUS

2. FACILITY WAS A RCRA FACILITY

II. PROCESSES - CODES AND DESIGN CAPACITIES

A. PROCESS CODE - Enter the code from the list of process codes below that best describes each process to be used at the facility. Ten lines are provided for entering codes. If more lines are needed, enter the code(s) in the space provided. If a process will be used that is not included in the list of codes below, then describe the process (including its design capacity) in the space provided on the form (Item II-C).

B. PROCESS DESIGN CAPACITY - For each code entered in column A, enter the design capacity of the process.

1. AMOUNT - Enter the amount.

2. UNIT OF MEASURE - For each amount entered in column B(1), enter the code from the list of unit measures below which best describes the unit measure used. Only the units of measure that are listed below should be used.

PROCESS	PROCESS CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
CONTAINER (metal, drum, etc.)	001	GALLONS OR LITERS
TANK	002	GALLONS OR LITERS
WASTE PILE	003	CUBIC YARDS OR CUBIC METERS
SURFACE IMPOUNDMENT	004	GALLONS OR LITERS
INJECTION WELL	005	GALLONS OR LITERS
LANDFILL	006	ACRE-Feet (the volume that would cover one acre to a depth of one foot) OR RECTANGULAR METERS
LAND APPLICATION	007	ACRES OR HECTARES
OCEAN DISPOSAL	008	GALLONS PER DAY OR LITERS PER DAY
SURFACE IMPOUNDMENT	009	GALLONS OR LITERS

OTHER (For processes not listed above, enter the process name and description in the space provided. Item II-C.)

UNIT OF MEASURE	UNIT OF MEASURE CODE	UNIT OF MEASURE	UNIT OF MEASURE CODE	UNIT OF MEASURE	UNIT OF MEASURE CODE
GALLONS	G	LITERS PER DAY	L	ACRE-Feet	A
LITERS	L	TONS PER HOUR	T	RECTANGULAR METERS	R
CUBIC YARDS	C	METRIC TONS PER HOUR	M	ACRES	AC
CUBIC METERS	M	GALLONS PER HOUR	GH	HECTARES	HC
GALLONS PER DAY	GD	LITERS PER HOUR	LH		

EXAMPLE FOR COMPLETING ITEM II (shown in the numbers X-1 and X-2 below): A facility has two storage tanks, one tank can hold 200 gallons and the other can hold 400 gallons. The facility also has an incinerator that can burn up to 20 gallons per hour.

A. PROCESS CODE (from list above)		B. PROCESS DESIGN CAPACITY		FOR OFFICIAL USE ONLY	
X-1	S 0 2	200	G		
X-2	T 0 3				
	S 0 1	10,000	G		

MUP-01-173242

2. SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESSES (code "00"). FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY.

IV. DESCRIPTION OF HAZARDOUS WASTES

A. EPA HAZARDOUS WASTE NUMBER - Enter the four-digit number from 40 CFR, Subpart D for each listed hazardous waste you will handle. If you handle hazardous wastes which are not listed in 40 CFR, Subpart D, enter the four-digit number(s) from 40 CFR, Subpart C that describe the characteristics and/or the toxic contaminants of these hazardous wastes.

B. ESTIMATED ANNUAL QUANTITY - For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.

C. UNIT OF MEASURE - For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE	CODE	METRIC UNIT OF MEASURE	CODE
POUNDS.....	P	KILOGRAMS.....	K
TONS.....	T	METRIC TONS.....	M

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

D. PROCESSES

1. PROCESS CODES:

For listed hazardous waste: For each listed hazardous waste entered in column A select the code(s) from the list of process codes contained in Item III to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non-listed hazardous waste: For each characteristic or toxic contaminant entered in column A, select the code(s) from the list of process codes contained in Item III to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed hazardous wastes that possess that characteristic or toxic contaminant.

Notes: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of Item IV-D(1); and (3) Enter in the space provided on page 4, the line number and the additional code(s).

2. PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in the space provided on the form.

NOTE: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER - Hazardous wastes that can be described by more than one EPA Hazardous Waste Number shall be described on the form as follows:

1. Select one of the EPA Hazardous Waste Numbers and enter it in column A. On the same line complete columns B, C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
2. In column A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the waste. In column D(2) on that line enter "Included with above" and make no other entries on that line.
3. Repeat step 2 for each other EPA Hazardous Waste Number that can be used to describe the hazardous waste.

EXAMPLE FOR COMPLETING ITEM IV (shown in the numbers X-1, X-2, X-3, and X-4 below) - A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

LINE NO.	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES	
				1. PROCESS CODES (enter)	2. PROCESS DESCRIPTION (if a code is not entered in D(1))
X-1	K054	900	P	T03D000	
X-2	D002	400	P	T03D000	
X-3	D001	100	P	T03D000	
X-4	D002				Included with above

MUP-01-173243

Continued from page 2.

NOTE: Photocopy this page before completing. You have more than 26 wastes to list.

Form Approved OMB No. 53-SAC004

EPA I.D. NUMBER (enter from page 1)										FOR OFFICIAL USE ONLY									
W N J 0 0 0 2 0 1 2 2 1 9										W DUP 2 DUP									
IV. DESCRIPTION OF HAZARDOUS WASTES (continued)																			
LINE NO.	A. EPA HAZARD. WASTENO. (enter code)				B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES												
							1. PROCESS CODES (enter)				2. PROCESS DESCRIPTION (if a code is not entered in D(1))								
1	D	C	0	1	1,000	P	S	0	1										
2	D	0	0	2	5,000	P	S	0	1										
3	D	0	0	3	500	P	S	0	1										
4	U	0	0	2	10	G	S	0	1										
*5	U	0	0	7	100	P	S	0	1									*Also NJ Code X109	
6	U	0	1	3	500	P	S	0	1										
7	U	0	3	1	100	G	S	0	1										
*8	U	0	3	7	500	G	S	0	1									*Also NJ Code X170	
*9	U	0	4	4	10	G	S	0	1									*Also NJ Code X176	
10	U	0	5	2	1,000	P	S	0	1										
11	U	1	1	7	10	G	S	0	1										
12	U	1	2	2	5,000	P	S	0	1										
13	U	1	2	3	100	G	S	0	1										
14	U	1	5	4	100	G	S	0	1										
*15	U	1	6	5	2,500	P	S	0	1									*Also NJ Code X329	
16	U	1	8	8	2,500	P	S	0	1										
*17	U	2	3	8	4,000	P	S	0	1									*Also NJ Code X456	
18	U	2	3	9	2,500	G	S	0	1										
19	X	3	8	7	1,000	G	S	0	1									NJ Code in "A"	
20	X	7	2	2	100	G	S	0	1									NJ Code in "A"	
21	X	7	2	5	1,000	G	S	0	1									NJ Code in "A"	
22	X	7	2	6	200	G	S	0	1									NJ Code in "A"	
23	X	7	2	7	500	G	S	0	1									NJ Code in "A"	
24	X	8	5	0	1,000	P	S	0	1									NJ Code in "A"	
25	X	9	0	0	500	G	S	0	1									NJ Code in "A"	
26	X	9	1	0	5,000	P	S	0	1									NJ Code in "A"	

MUP-01-1732

7. DESCRIPTION OF HAZARDOUS WASTE (continued)

E. USE THIS SPACE TO LIST ADDITIONAL PROCESS CODES FROM ITEM 5(1) ON PAGE 1.

EPA I.D. NO. (enter from page 1)

F N J D 0 0 2 0 1 2 2 1 9 6

V. FACILITY DRAWING

All existing facilities must include in the space provided on page 5 a scale drawing of the facility (see instructions for more detail).

VI. PHOTOGRAPHS

All existing facilities must include photographs (aerial or ground-level) that clearly delineate all existing structures; existing storage, treatment and disposal areas; and sites of future storage, treatment or disposal areas (see instructions for more detail).

VII. FACILITY GEOGRAPHIC LOCATION

LATITUDE (degrees, minutes, & seconds)

4 0 5 0 1 9

LONGITUDE (degrees, minutes, & seconds)

7 4 0 4 5 5

VIII. FACILITY OWNER

☒ A. If the facility owner is also the facility operator as listed in Section VIII on Form 1, "General Information", place an "X" in the box to the left and skip to Section IX below.

B. If the facility owner is not the facility operator as listed in Section VIII on Form 1, complete the following items:

1. NAME OF FACILITY'S LEGAL OWNER

2. PHONE NO. (area code & no.)

3. STREET OR P.O. BOX

4. CITY OR TOWN

5. ST.

6. ZIP CODE

IX. OWNER CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME (print or type)

Michael J. Rudick
Vice President

B. SIGNATURE

Michael J. Rudick

C. DATE SIGNED

10/19/80

X. OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME (print or type)

B. SIGNATURE

C. DATE SIGNED

CARLSTADT DRUM STORAGE FACILITY



MUP-01-173246

DIAMOND SHAMROCK CHEMICALS CO. - CARLSTADT, N.J. PLANT
WASTE MINIMIZATION PLAN - 1986

Drums of Paraformaldehyde Flakes - From the formation of a phenol-formaldehyde resin. Paraformaldehyde, in flake form, would not react completely and had to be filtered from the final product. This resulted in the generation of approximately six drums a year of waste paraformaldehyde. The plant has switched from flake to a prill form of paraformaldehyde which reacts completely, eliminating any waste from this product.

Collapsed Fiber Drums Containing Product - The plant experienced a problem with fiber drums of various materials collapsing during the summer months. By switching to a drum with a thicker polyliner, the problem was vitrually eliminated. This has reduced the amount of waste produced by 20-30 drums per year.

Drums of Cotton Felt Filter Cloths - From the final filtration of the plant's Sodium Hydrosulfite product. Currently investigating the possibility of using cloth filters, instead of disposable cotton felt filters. If feasible, this would virtually eliminate any drums of waste being produced by the plant on a regular basis.

Calcium Sulfate (Gypsum) Sludge - From the neutralization of low salt Lomar products. The plant is experimenting with oleum sulfonations on this line of products. The use of oleum will insure a greater degree of sulfonation reducing the amount of residual sulfuric acid, thus eliminating the need to lime the batches to reduce salt levels. By instituting oleum sulfonations on the 1987J product line, the plant was able to reduce the amount of sludge generated last year by approximately 87 tons. Work is continuing to convert more products to this process.

MISCELLANEOUS MEASURES:

- Reductions in the size of the batches, which are especially reactive, to prevent accidental discharge.
- Installation of catch boxes on emergency relief vents to catch and recycle product to the operation instead of creating waste material.
- Computerized temperature monitoring of condensation reactions to insure batches remain under control.

The goal of the plant is to reduce to the greatest degree the two waste streams that are currently generated on a regular basis: Cotton Felt Filter Cloths and Calcium Sulfate Sludge. All other waste generated occur due to unforeseen circumstances and not as part of the normal operation of the plant.

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WASTE MANAGEMENT
HAZARDOUS SITE MITIGATION ADMINISTRATION
BUREAU OF INDUSTRIAL SITE EVALUATION

ENVIRONMENTAL CLEANUP RESPONSIBILITY ACT (ECRA)

INITIAL NOTICE

GENERAL INFORMATION SUBMISSION (GIS)

This is the first part of a two-part application form. This information must be submitted within 5 days following public release of a decision to close operations or the signing of a sales agreement or option to purchase involving an Industrial Establishment as defined in N.J.S.A. 13:1K-6, the Environmental Cleanup Responsibility Act.

SUBMIT THE ORIGINAL PLUS TWO COPIES OF THIS COMPLETED FORM AND ANY ATTACHMENTS.

Please refer to instructions and N.J.A.C. 7:1-3.7(d) before filling out this form. Answer all questions. Please print or type.

Date: May 9, 1986

1. A. Industrial Establishment:

Name: Diamond Shamrock Chemicals Company Telephone No.: (201) 933-5222

Street Address: Berry Avenue @ Rte. 17N

City or Town: Carlstadt State: New Jersey Zip Code: 07072

Municipality: Carlstadt County: Bergen

B. Tax Lot Number: 2 Tax Block Number: 84

C. Standard Industrial Classification (SIC) Number: 2869, 2843, 2821

D. Current Owner (Property):

Name: Diamond Shamrock Chemicals Company Telephone No.: (214) 659-7000

Firm: Diamond Shamrock Chemicals Company

Street Address: P. O. Box 152300 - 351 Phelps Court

Municipality: Irving State: Texas Zip Code: 75015

E. Current Operator of Industrial Establishment:

Name: Same as 1.D.

Telephone No.: _____

Firm: _____

Street Address: _____

Municipality: _____ State: _____ Zip Code: _____

F. Current Owner (Business, if different from operator):

Name: Same as 1.D.

Telephone No.: _____

Firm: _____

Street Address: _____

Municipality: _____ State: _____ Zip Code: _____

FOR DEP USE ONLY

Date Rec'd. _____ Notice No. _____

G. If the Industrial Establishment discharges sanitary and/or industrial wastes to a publicly-owned treatment plant, provide the name and address of that facility.

Name: Joint Meeting - Rutherford, E. Rutherford Telephone No.: (201) 939-1794
Carlstadt

Street Address: P. O. Box 281 - Foot of Borough Street

Municipality: Rutherford State: New Jersey Zip Code: 07070

Is a septic system used (or used previously) at the site? ☐ Yes ☒ No

H. Has an ECRA application been filed for this Industrial Establishment or location subsequent to January 1, 1984? ☐ Yes ☒ No If so, when? _____

For what reason _____

Final disposition _____

I. How is this Industrial Establishment heated? (gas, oil, electricity) Oil-fired boilers w/gas-firing capability

2. List previous activities at the location(s) involved (attach additional sheets if necessary). In addition to describing the activities, list the business name(s), current address(es) and dates of ownership/operation of the previous activity(ies), if known. Records not maintained on historical matters. Current records show:

a. NOPCO Chemical Company owned and operated facility from 1959 to merger into present Diamond Shamrock Chemicals Company in 1967. Specialty chemicals production-operations, generally similar to current operations, were conducted.

b. Jacques Wolff Company owned and operated facility from about 1921 to 1959. We understand specialty chemicals for the textile industry were produced, similar to part of current operations.

c. Prior to 1921, we understand the Silver Fox Lard Co. owned the facility. Their operations are unknown.

3. If the transaction initiating an ECRA review is the cessation of operations at this location, fill in the date of public release of the decision to close the facility and enclose a copy of the public announcement. Is a cessation of operations involved? ☐ Yes ☒ No

Date of the public release of the decision _____

Is the public release enclosed? ☐ Yes ☐ No

If you checked "no", state the reason(s) _____

4. If the transaction initiating an ECRA review is an agreement of sale or option to purchase, fill in the date of the execution of that instrument plus provide a copy of the document Not yet finalized, but expected shortly.

A. Is a sale involved? ☒ Yes ☐ No

B. Date of Agreement Not yet finalized, but expected shortly.

C. Is a copy of the agreement of sale or option to purchase attached? ☐ Yes ☒ No

If you checked "no", state the reason(s) No final sales agreement reached at this time.

B. New Jersey Pollutant Discharge Elimination System

NUMBER	DISCHARGE ACTIVITY	DATE ISSUED OR DENIED	EXPIRATION DATE	BODY OF WATER DISCHARGED INTO
NJ0002798	Chemicals Prod. Issue	12/7/83	1/14/89	Berry's Creek
(Same)	Chemicals Prod. Addendum	5/21/84	1/14/89	HMDC Collection Sewer

C. United States Environmental Protection Agency (EPA) Identification Number and copy of the most recent generator Annual Report prepared pursuant to the New Jersey Hazardous Waste Regulations.

ID # NJD002012219Is a copy of the Annual Report attached? ☒ Yes ☐ No

D. All other federal, state, local governmental permits.

AGENCY ISSUING PERMIT	PERMIT NUMBER	DATE OF APPROVAL OR DENIAL	EXPIRATION DATE
1. NJ Dept. of Environ. Protection	1009	1/21/76	None
"Permit to Locate"			
2. Hackensack Meadowlands	OC-76-147	5/26/77	None
Development Commission	OC-74-115	7/17/75	None
"Certificates of Occupancy"	OC-73-127	10/29/74	None

8. If applicable, identify all administrative orders, temporary or permanent injunctions, civil administrative penalties, or criminal actions concerning the environment issued against the facility, its owners, or managers during the last ten years. Records not complete for historical matters. Current records are summarized on the attached list.

Check here if no enforcement actions are involved _____

A. Date of Action _____

Section of Law or Statute violated _____

Type of Enforcement Action _____

Description of the Violation _____

How was the violation resolved? _____

RAW MATERIAL INVENTORIES

CODE -----	DESCRIPTION -----	CODE -----	DESCRIPTION -----
CA2I	70% METHANE SULFONIC ACID	CC4G	HEXYLENE GLYCOL
CA2K	98% SULFURIC ACID	CC4N	DIPHENYLAMINE (TECH)
CA2M	80% LACTIC ACID	CC5H	UCON 50 HB 5100
CA2R	85% PHOSPHORIC ACID	CC7P	CELLOSOLVE ACETATE
CA2T	20% OLEUM	CC7S	PLURACOL POLYOL TP740
CA2X	ACETIC ANHYDRIDE	CC8P	METHYLDIETHANOLAMINE
CA2Z	70% HYDROXYACETIC ACID	CC9A	PLURACOL POLYOL TP1540
CA3D	METHYL ALCOHOL	CC9C	PLURACOL POLYOL TP440
CA3F	ISOPROPYL ALCOHOL	CC9D	POLYPROPYLENE GLYCOL
CA3G	N-BUTYL ALCOHOL	CC90	POLYALKYLENE TRIOL
CA4A	26% Be AQUA AMMONIA	CC9P	1,3 BUTYLENE GLYCOL
CA4H	ANHYDROUS AMMONIA	CD4R	ACTIVATED CARBON
CA4K	AMMONIUM CARBONATE	CF3C	70% FORMIC ACID
CA5S	HYPOPHOSPHOROUS ACID	CF3E	37% FORMALDEHYDE
CA6E	ITACONIC ACID	CF4B	DIBUTYL-TIN DILAURATE
CA6H	99.5% SULFAMIC ACID	CF5F	DIAMATECEOUS EARTH
CB3C	MONOCHLOROBENZENE	CG3W	GUM KARAYA SCREENINGS
CB3F	BISPHENOL A	CG5E	TRIMETHYLOL PROPANE
CB3P	PHENOL	CH2A	HYDROGEN PEROXIDE
CB4K	90% META/PARA CRESOL	CH3G	BUTYLATEDHYDROXYTOLUENE
CB4X	BENZOYL CHLORIDE	CH3W	ETHYL ANTIOXIDANT 330
CC3E	DIETHYLENE GLYCOL	CL2D	HYDRATED LIME
CC3H	TRIETHANOLAMINE	CL3B	LECITHIN (UNBLEACHED)
CC3U	AMINOETHYLETHANOLAMINE	CM2H	DIMETHOXANE
CC3W	TETRAETHYLENE PENTAMINE	CM2L	PARAFORMALDEHYDE FLAKES
CC3Y	DIETHANOLAMINE	CM4J	ACRYLAMIDE MONOMER

oxygen
used

CM5P	POLYOL 395	CS4E	SODIUM BENZOATE
CM5S	POLYVINYL PYRROLIDONE	CS4I	50% SODIUM HYDROXIDE
CN2A	PETROLEUM NAPHTHALENE	CS4L	BICARBONATE OF SODA
CN2D	COAL TAR NAPHTHALENE	CS4Y	SODIUM SULPHIDE FLAKES
CN5K	MINERAL SPIRITS	CS5B	DENSE SODA ASH
C03J	DIETHYL SULFATE	CS7B	MOLTEN SULFUR
C04N	ORTHO-CRESOL (SYNTHETIC)	CS8P	ZINC DUST (MEADOWBROOK)
C05M	TERGITOL XD	CS9C	ZINC DUST (ROYCE)
C08L	ALFOL 20+ ALCOHOL	CS9W	ZINC DUST (NJ ZINC)
CP3A	POTASSIUM CARBONATE	CT5A	TRISODIUM PHOSPHATE
CP3D	45% POTASSIUM HYDROXIDE	CT5I	SODIUM TRIPOLYPHOSPHATE
CP3M	POTASSIUM PERSULFATE	CT5Z	HAMPENE 100
CS2A	SODIUM CHLORIDE (SALT)	CT6A	TETRAPOTASSIUM PYRO- PHOSPHATE
CS2C	SODIUM SULFATE (ANHYDROUS)	CV3B	UREA
CV3D	DICYANDIAMIDE	CV3K	THIOUREA DIOXIDE
CW3P	SILICONE OIL EMULSION	CX2A	XYLENE (COMMER. GRADE)
CX2B	XYLENE (URETHANE GRADE)	MS3K	25% SODIUM CHLORITE
OB3B	ACRYLAN SBC	OM4A	MINERAL OIL
OP6R	PARAFFIN OIL	OR2G	OLEIC ACID

THE ABOVE LIST REPRESENTS ALL HAZARDOUS, AND POTENTIALLY
HAZARDOUS MATERIALS MADE BY, AND USED IN, THIS FACILITY.
THIS IS ONLY A LIST, AND DOES NOT PROVIDE SAFETY AND
HANDLING INFORMATION. PLEASE CONSULT YOUR MSDS FOR FULL
SAFETY AND HANDLING INFORMATION

CARLSTADT

cord#	PO	VENDOR	WASTE	REFERENCE	EXPIRATION	SITE
72	AB 204104	SCA	PHENOL CONTAMINATED RAINWATER	QC14869-N2	08/31/86	NEWARK, NJ
70	AB 204899	SCA	LIQUID AQUEOUS STILL BOTTOMS	975-N	09/30/86	NEWARK, NJ
71	AB 209958	PINTO SERV	L.S. SLURRY		01/31/87	BERGEN COUNTY LYND
202	AB 212402	AM. INDUS.	SULFUR & DIRT	WC-1414	04/30/87	WASTE CONVERSION,
203	AB 212402	AM. INDUS.	STILL BOTTOMS	WC 1400	04/30/87	WASTE CONVERSION,
204	AB 212402	AM. INDUS.	SULFONATED PHENOLIC FORMALDEHY	WC 1415	04/30/87	WASTE CONVERSION,

FINISHED PRODUCTS AND NUMBERED RAW MATERIALS

CODE	DESCRIPTION
----	-----
1016B	(SUPERCLEAR 300N) blend of 6516P and Polyacrylamide
1029F	Propoxylated butanol
1044A	liquid Polyurethane (50% solids)
1044E	urethane emulsion
1044F	urethane emulsion
1124	Polyethylene glycol (PEG) ester
1126B	PEG di-ester of oleic acid
1157R	blend of PEG 300 coco-ester and butyl stearate
1193B	acidic blend of Phenolic sulfone/sulfonated naphthalene formaldehyde condensate
1193C	neutralized 1193B
1267C	butyl-naphthalene sulfonic acid, sodium salt
1267P	spray-dried 1267C
1267Y	(Purchased) dodecyl benzene sulfonic acid
1287A/B	spray-dried 1287D
1287C	SORBIT (butyl-naphthalene sulfonate)
1287D	xylene-sulfonate formaldehyde condensate, sodium salt
1287E	TANASOL PW (no-lime Lomar PW)
1287F	low-lime Lomar PW
1287H	BLANCOL N (spray-dried 1287F)
1287J	AQUAQUEST (Lomar PWC)
1287L	BLANCOL T (spray-dried 1287E)
1287M	low-salt Lomar PW
1287P	LOMAR LS (spray-dried 1287M)
1287V	LOMAR PL ('special' no-lime Lomar PW)
1387D	LOMAR HP (spray-dried 1387E)
1387E	(Potassium salt Lomar D for 9yPsum)

CODE	DESCRIPTION
1093C	cresylic sulfonic acid/sulfone formaldehyde condensate sodium salt
1387J	LOMAR D liquid (naphthalene sulfonic acid formaldehyde condensate, sodium salt)
1387P	low-salt Lomar D (sodium salt for 99Psum)
1387R	spray-dried 1387P
1393	sulfonated bisPhenol A/sulfone formaldehyde condensate
1393A	(intermediate for 1393) Phenol sulfone
1393B	(intermediate for 1393) bisPhenol A sulfonate
1393C	NOPCOTAN A65D (spray-dried 6393R)
1393F	Phenol sulfone, sodium salt
1393J	sulfonated Phenol/cresol formaldehyde condensate, sodium salt
1393K	blend of dicarboxylic acids and sulfonated Phenol
1393L	Poly Phenol/cresol sulfonate formaldehyde condensate, ammonium salt
1393M	sulfonated Phenolic-formaldehyde resin, Partial sodium salt
1393V	Phenol sulfone formaldehyde condensate, sodium salt
1393W	cresylic sulfonic acid/sulfone formaldehyde condensate, sodium salt
1393X	sulfonated Phenol/cresol sulfone, bone blue/dextrin blend
1486A	ketone-formaldehyde resin
1486B	POLYMER B (spray-dried 1486A)
1487A	slightly acidic Lomar D liquid
1587K	Lomar PW liquid (sulfonated naphthalene formaldehyde condensate)
1587P	spray-dried 1587K (for Polysar and Reichold)
1587V	spray-dried 1287J
1587W	LOMAR PWA (ammonia neutralized Lomar PW)
1587Y	spray-dried 1587W
1687P	spry-dried 1387J

<u>CODE</u>	<u>DESCRIPTION</u>
1787D	sPray-dried 1287V
1787J	ammonia neutralized Lomar D type (coal-water slurry dispersant)
1787R	TANASOL PW SPECIAL (sPray-dried 1787T)
1787S	Coal Water Slurry Dispersant A-23M (sulfonated naphthalene formaldehyde condensate--Lomar PW type)
1787T	TANASOL PL (Lomar PW type)
1787V	(same as 1787S, but made from CN20)
1987F	ultra-high molecular weight Lomar D type
1987H	sPray-dried 1987F
1987J	medium-salt Lomar D type (coal-tar based)
1687K	low-salt Lomar D type (coal-tar based)
1987C	sPray-dried 1687K
2268E	Phenol sulfonic acid, sodium salt
2620	cationic Polyamide-based surfactant
6030	liquid sodium hydrosulfite (HYDRO)
6030A	liquid sodium formaldehyde sulfoxylate (AWC)
6031M	solid (Pea-sized) 6030A
6031P	solid (rice-sized) 6030A
6031R	solid (Powdered) 6030A
6035	solid sodium hydrosulfite (Purchased)
6067	SELLOGEN HR (isopropyl naphthalene sulfonate, sodium salt)
6067A	sPray-dried 6067
6087B	TANASOL NCO (acidic Lomar PW type)
6133R	solid sodium formaldehyde sulfoxylate (Cathay Chemicals AWC)
6187L	TANASOL CJ-227 (acidic Lomar PW type)
6287	sPray-dried 6287M
6287B	sPray-dried 6087B
6287M	Lomar PW type (DuPont style)

<u>CODE</u>	<u>DESCRIPTION</u>
6293V	sPray-dried 6393M
6393M	MONOTAN R (Lomar PW/ urea-formaldehyde condensate)
6393R	NOPCOTAN A65D (similar to 6393M)
6416	gum karaya solution (100N gum)
6416B	gum karaya solution (200N gum)
6516P	gum karaya solution (80N gum)
8148	itaconic/acrylic coPolymer in PhosPhate solution
1675	same as 8148
8160	liquid Polyurethane
8238	synthetic detergent oil (sPray-dry de-dusting oil)
9126A	SELLOGEN HR90 (low-salt (limed) 6067)
9146A	SORBIT (liquid butyl naPhthalene sulfonate, sodium salt)
9151A	(same as 9146A, but with extra sodium sulfate added)
9268A	sPray-dried 9151A
9452A	TANASOL IR (acidic Lomar PW type)
9623	blend of fatty-amides and fatty ester of Polyglycol

THIS LIST IS COMPLETE AS OF MAY 1986

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
HAZARDOUS WASTE GENERATOR ANNUAL REPORT 1985
- REPORT FORM -

1. Generator Name: Diamond Shamrock Chemicals Company EPA ID No.: NJD002012219
Site Address: Berry Avenue @ Route 17 N., Carlstadt, N.J. 07072
American Industrial
2. Transporter Name: Marine Services EPA ID No.: NJD980773006
3. TSD Facility Name: Waste Conversion EPA ID No.: PAD085690592
TSD Address: 2869 Sandstone Road, Hatfield, Pa. 19440

Waste A.) <u>Number</u>	Waste B.) <u>Description</u>	DOT Haz C.) <u>Class</u>	Total D.) <u>Quantity</u>	E.) <u>Units</u>
X-722	Hazardous Waste, Liquid, N.O.S.	ORM-E	3,400	G

NOTE: For each combination of transporter and TSD facility, list the total quantity manifested for each waste type.

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
HAZARDOUS WASTE GENERATOR ANNUAL REPORT 1985
- REPORT FORM -

1. Generator Name: Diamond Shamrock Chemicals Co. EPA ID No.: NJD002012219
Site Address: Berry Avenue @ Route 17 N., Carlstadt, N.J. 07072
2. Transporter Name: SCA Chemical Services EPA ID No.: NJD089216790
3. TSD Facility Name: SCA Chemical Services EPA ID No.: NYD049836679
TSD Address: 1550 Balmer Road, Model City, N.Y. 14107

A.) <u>Waste Number</u>	B.) <u>Waste Description</u>	C.) <u>DOT Haz Class</u>	D.) <u>Total Quantity</u>	E.) <u>Units</u>
B-003	Waste, P.C.B. Liquid	ORM-E-T	29,552	P

NOTE: For each combination of transporter and TSD facility, list the total quantity manifested for each waste type.

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
HAZARDOUS WASTE GENERATOR ANNUAL REPORT 1985
- REPORT FORM -

1. Generator Name: Diamond Shamrock Chemicals Co. EPA ID No.: NJD002012219
Site Address: Berry Avenue @ Route 17 N., Carlstadt, N.J. 07072
2. Transporter Name: R & R Sanitation EPA ID No.: NJD064265838
3. TSD Facility Name: SCA Chemical Services Co. EPA ID No.: NJD089216790
TSD Address: 100 Lister Avenue, Newark, N.J. 07105

Waste A.) <u>Number</u>	Waste B.) <u>Description</u>	DOT Haz C.) <u>Class</u>	Total D.) <u>Quantity</u>	E.) <u>Units</u>
D-002	Hazardous Waste, Liquid, N.O.S.	ORME-15	5,000	G

NOTE: For each combination of transporter and TSD facility, list the total quantity manifested for each waste type.

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
HAZARDOUS WASTE GENERATOR ANNUAL REPORT 1985
- REPORT FORM -

1. Generator Name: Diamond Shamrock Chemicals Co. EPA ID No.: NJD002012219
Site Address: Berry Avenue @ Route 17 N., Carlstadt, N.J. 07072
2. Transporter Name: SCA Chemical Services Co. EPA ID No.: NJD089216790
3. TSD Facility Name: SCA Chemical Services Co. EPA ID No.: NJD089216790
TSD Address: 100 Lister Avenue, Newark, N.J. 07105

Waste A.) <u>Number</u>	Waste B.) <u>Description</u>	DOT Haz C.) <u>Class</u>	Total D.) <u>Quantity</u>	E.) <u>Units</u>
D-002	Hazardous Waste, Liquid, N.O.S.	ORME-15	25,000	G

NOTE: For each combination of transporter and TSD facility, list the total quantity manifested for each waste type.



Carlstadt Water Reports

**Diamond Shamrock
Chemicals Company**

Process Chemicals Division

May 1, 1984

Administrator
Water Quality Management
N.J.P.D.E.S. Permit Administration
Division of Water Resources
CN 029
Trenton, New Jersey 08625

Re: NJPDES Permit No. NJ 0002798

Gentlemen:

Enclosed are the discharge monitoring reports for the Diamond Shamrock Chemicals Company plant at Carlstadt, New Jersey. These reports cover the first quarter of 1984.

The reports enclosed are:

1. USEPA - DMR - EPA Form 3320-1
2. N.J. Discharge Monitoring Report - Point Discharge 001
3. N.J. Discharge Monitoring Report - Point Discharge 001A

Very truly yours,

J. E. Henry

J. E. Henry
Safety/Environmental
Control Engineer

David Abrines

JEH/g

pc: U.S.E.P.A. Region II
Mr. George Cascino, H.M.D.C.
Mr. E. H. Post, Water Quality Management
Mr. Gautam Patel, D.E.P. - OWR - WQM

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME SAFETY/ENVIRONM
ADDRESS DIAMOND SHAMROCK CHEMICAL CORP
BERRY AVE-ROUTE 17
CARLSTADT N 07072
FACILITY
LOCATION CARLSTADT

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16) NJ0002798 F 001
PERMIT NUMBER DISCHARGE NUMBER

840101-840331

OMB No. 2040-0004
Expires 2-29-84
GP AT M
12 A T

MONITORING PERIOD
FROM YEAR 84 MO 01 DAY 01 TO YEAR 84 MO 03 DAY 01
(20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

BERRYS CREEK
COOLING WATER

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-45) (46-53) (54-61)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
00310 B BOD, 5-DAY (BOD5) STREAM INT	SAMPLE MEASUREMENT	81.0	136.9	KG/DAY	8.4	9.1	13.0	MG/L	0	1/30	24
	PERMIT REQUIREMENT	*****	*****		*****	*****	*****			1/30	24
00310 1 BOD, 5-DAY (BOD5) EFFL GROSS	SAMPLE MEASUREMENT	171.8	284.5	KG/DAY	10.0	21.3	27.0	MG/L	0	1/30	
	PERMIT REQUIREMENT	*****	*****		*****	*****	*****			1/30	24
00310 4 BOD, 5-DAY (BOD5) EFFL NET	SAMPLE MEASUREMENT	92.3	147.5	KG/DAY	1.6	12.2	21.0	MG/L	0	1/30	24
	PERMIT REQUIREMENT	363.00	726.00		*****	*****	*****			1/30	24
00400 1 PH	SAMPLE MEASUREMENT	*****	*****		6.9	7.13	7.4	SU	0	5/30	GR
	PERMIT REQUIREMENT	*****	*****		6.00	*****	9.00			1/30	GP
00530 B SOLIDS, SUSPENDED, TOTAL (TSS) STREAM INT	SAMPLE MEASUREMENT	288.0	348.7	KG/DAY	27.0	36.3	42.0	MG/L	0	1/30	24
	PERMIT REQUIREMENT	*****	*****		*****	*****	*****			1/30	24
00530 1 SOLIDS, SUSPENDED, TOTAL (TSS) EFFL GROSS	SAMPLE MEASUREMENT	220.6	484.7	KG/DAY	10.0	23.3	46.0	MG/L	0	1/30	24
	PERMIT REQUIREMENT	*****	*****		*****	*****	*****			1/30	24
00530 4 SOLIDS, SUSPENDED, TOTAL (TSS) EFFL NET	SAMPLE MEASUREMENT	66.7	200.2	KG/DAY	0.0	6.33	19.0	MG/L	0	1/30	24
	PERMIT REQUIREMENT	303.00	605.00		*****	*****	*****			1/30	24

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

K. P. Mitchell, Vice Pres.

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

R. Chopoulos, Plant Mgr.

SIGNATURE OF PRINCIPAL EXECUTIVE
OFFICER OR AUTHORIZED AGENT

TELEPHONE

201-933-5222

DATE

84 04 30

AREA CODE NUMBER YEAR MO DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

FOR BOD, TSS & ZINC. 0 MEANS NO NET INCREASE WITHIN DETECTABLE LIMITS.

B 07791
SUBJECT TO
PROTECTIVE
ORDER

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME SAFETY/ENVIRONM
ADDRESS DIAMOND SHAMROCK CHEMICAL CORP
BERRY AVE-ROUTE 17
CARLSTADT N 07072
FACILITY
LOCATION CARLSTADT

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16) NJ0002798 F (17-19) 001
PERMIT NUMBER DISCHARGE NUMBER

840101-840331

OMB No. 2040-0004
Expires 2-29-84

GP AT M
12 A I

MONITORING PERIOD																										
YEAR			MO			DAY			TO			YEAR			MO			DAY								
3			4			0			1			3			4			0			3			1		
(20-21)			(22-23)			(24-25)						(26-27)			(28-29)			(30-31)								

BERRYS CREEK
COOLING WATER

NOTE: Read Instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-43)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
01092 2 ZINC, TOTAL (AS ZN) STREAM INT	SAMPLE MEASUREMENT	1.32	2.25	KG/DAY	0.070	0.162	0.214	UG/L	0	1/30	24
	PERMIT REQUIREMENT	*****	*****		*****	*****	*****			1/30	24
01092 1 ZINC, TOTAL (AS ZN) EFFL GROSS	SAMPLE MEASUREMENT	2.37	5.17	KG/DAY	0.072	0.268	0.491	UG/L	0	1/30	2
	PERMIT REQUIREMENT	*****	*****		*****	*****	*****			1/30	24
01092 4 ZINC, TOTAL (AS ZN) EFFL NET	SAMPLE MEASUREMENT	1.10	2.91	KG/DAY	0.002	0.106	0.277	UG/L	0	1/30	24
	PERMIT REQUIREMENT	6.00	12.00		*****	*****	*****			1/30	24
50050 1 FLOW RATE (MILLION GALLONS/DY) EFFL GROSS	SAMPLE MEASUREMENT	*****	*****		2.3	2.66	2.9	MGD	0	20/30	GR
	PERMIT REQUIREMENT	*****	*****		*****	*****	*****			1/30	GP
74025 1 TEMPERATURE, SUMMER EFFL GROSS	SAMPLE MEASUREMENT	*****	*****					DEG.C			
	PERMIT REQUIREMENT	*****	*****		*****	27.00	35.00			1/30	GP
74026 1 TEMPERATURE, WINTER EFFL GROSS	SAMPLE MEASUREMENT	*****	*****		3.2	5.2	6.3	DEG.C	0	20/30	G'
	PERMIT REQUIREMENT	*****	*****		*****	15.00	24.00			1/30	GR
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN. AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 USC § 1001 AND 33 USC § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)	R. Chonoles, Plt. Mgr.	TELEPHONE		DATE		
K. P. Mitchell, V.P.			201-933-5222		84	04	30
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
FOR BOD, TSS & ZINC. 0 MEANS NO NET INCREASE WITHIN DETECTABLE LIMITS.

B 07792
SUBJECT TO
PROTECTIVE
ORDER

DISCHARGE MONITORING REPORT

PERMIT No. NJ 0002798

- DISCHARGE POINT 001-

DIAMOND SHAMROCK CHEMICALS COMPANY
BERRY AVENUE AT ROUTE 17
CARLSTADT, NEW JERSEY 07072

REPORT FOR 1/1/84 - 3/31/84

ITEM	TYPE/SAMPLE	JANUARY	FEBRUARY	MARCH	QUARTERLY
1. pH (Data-Avg. Outlet) S.U.	Grab	7.1	7.1	7.2	
2. Temp. (Data-Avg. Outlet) °C	Grab	3.2	6.0	6.3	
3. Flow (Data-Avg. Outlet) MGD	Grab	2.3	2.9	2.78	
4. T.S.S. (Net) mg/l	Composite	0.0	0.0	19.0	
5. BOD (Net) mg/l	Composite	1.6	21.0	14.0	
6. T.O.C. (Net) mg/l	Composite	0.0	19.0	27.6	15.5
7. Pet. Hydrocarbons (Net) mg/l	Composite	3.2	13.2	0.4	5.6
8. Color (Net) S.U.	Composite	0.0	0.0	0.0	
9. Turbidity (Net) JTU	Composite	0.0	0.0	6.0	
10. Zinc (Net) mg/l	Composite	0.002	0.04	0.277	

Items 1, 4, 5, 6, 7, 8, 9, 10 analyzed by:

H & E

H & E

H & E

Items 1, 2, 3, Plant Derived data

Item 1 - Avg. of plant data and contractors

H & E - Havens & Emerson, Saddle Brook, N.J.

B 07793
SUBJECT TO
PROTECTIVE
ORDER

Date. 5/1/84

DISCHARGE MONITORING REPORT

PERMIT NO. NJ 0002798

Discharge Point 001A

DIAMOND SHAMROCK CHEMICALS COMPANY
BERRY AVENUE AT ROUTE 17
CARLSTADT, NEW JERSEY 07072

REPORT FOR 1/1/84 - 3/31/84

ITEM	TYPE/SAMPLE	JANUARY	FEBRUARY	MARCH
1. pH, S.U.	Grab	6.77	6.64	6.7
2. Temperature °C	Grab	4.0	6.0	6.0
3. Flow, MGD	Grab	1.1	1.5	1.1
4. T.S.S. mg/l (net)	Composite	0.00	0.00	5.0
5. BOD, mg/l (net)	Composite	24.6	12.0	0.0
6. TOC, mg/l (net)	Composite	14.5	3.0	0.0
7. Formaldehyde, mg/l	Grab	0.065	0.171	N.D. < 1.0 ppm
8. Triethanolamine, mg/l	Grab	*	*	N.D. < 1.0 ppm
9. Xylene, mg/l	Grab	N.D. < .010	N.D. < .010	N.D. < 1.0 ppb
10. Cresol, mg/l	Grab	N.D. < .010	N.D. < .010	N.D. < 2.0 ppb

Items 4, 5, 6 are net numbers

Items 1, 4, 5, 6, 7, 8, 9, 10 analyzed by

Items 2, 3 Plant Data

*Samples analyzed using several methods without results

H & E - Havens & Emerson, Saddle Brook, N.J.

U.S. Testing - United States Testing, Hoboken, N.J.

H & E

H E &

U.S. Testing

B 07794
SUBJECT TO
PROTECTIVE
ORDER

Report Submitted by:

J. E. Henry

Date: 5/1/84

500030



State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WASTE MANAGEMENT
120 Mt. Pleasant, Yardville, N.J. 08620

JACK STANTON
DIRECTOR

THOMAS P. MITCHELL
DEPUTY DIRECTOR

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

MAY 17 1983

NOTICE OF VIOLATION
AND OFFER OF SETTLEMENT

D.W.M. Case #83-02-11-001

Diamond Shamrock Corporation
Corporation Trust
28 West State Street
Trenton, NJ 08608

Gentlemen:

reactor

On February 10, 1983 as a result of an overpressurization of a reactor due to insufficient cooling at the Diamond Shamrock Corporation located at Berry Avenue, Route 17, Carlstadt, New Jersey, two pressure release disks ruptured allowing approximately 1,000 gallons of naphthalene sulfonic acid to be discharged onto the ground from which it flowed into Berry's Creek.

The incident summarized above was investigated by members of the Division of Waste Management, who determined that the following provisions of the Spill Compensation and Control Act and regulations promulgated thereunder were violated:

N.J.S.A. 58:10-23.11c

Discharging Hazardous Substances

N.J.S.A. 58:10-23.11e/
N.J.S.A. 58:10-23.11u

Failure to Immediately Notify the
Department of the Discharge
[see N.J.A.C. 7:1E-2.1(a)].

The above cited violations carry maximum statutory civil penalties of \$25,000 per day for each violation.

In accordance with the recommendations of the Department of Environmental Protection, and pursuant to the authority vested in me as Administrator of the New Jersey Spill Compensation and Control Fund by N.J.S.A. 58:10-23.11q, I am amenable to compromise and settle these claims for penalties for the sum of \$780.00.

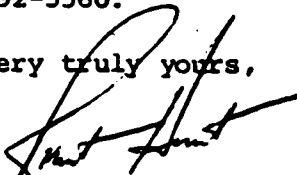
Should you decide to settle this matter, payment must be made within fifteen (15) days of your receipt of this letter. Payment must be sent to the Administrator, New Jersey Spill Compensation Fund, Department of Treasury, 135 West Hanover Street, Trenton, New Jersey 08625. Only checks or money orders drawn to the order of "New Jersey Spill Compensation and Control Fund" will be accepted. Your cancelled check or money order will serve as your receipt.

Should you decide not to accept this settlement offer or fail to forward payment within 15 days of receipt of this letter, this offer is rescinded, and this matter will be referred to the Office of the Attorney General with instructions to initiate a legal action for the maximum allowable penalty.

Acceptance of this settlement offer will satisfy your liability for civil penalties in connection with the above cited violations but will not relieve you of any other responsibility or obligation under the law, including the responsibility to pay for any damages which may have been caused by the discharge.


If you wish to make any inquiries or discuss this settlement offer, you may contact David Shotwell, Chief, Bureau of Compliance and Enforcement, Division of Waste Management at 120 Route 156, Yardville, N.J. 08620 or at (609) 292-5560.

Very truly yours,



Administrator,
New Jersey Spill Compensation and Control Fund

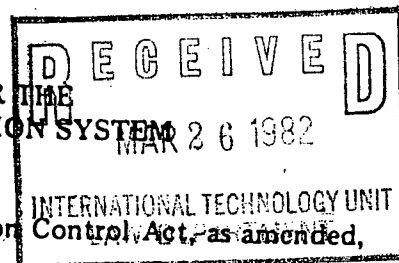
Recommendation approved by:



Joseph A. Rogalski, Assistant Director
Division of Waste Management
Department of Environmental Protection

kas

**AUTHORIZATION TO DISCHARGE UNDER THE
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM**



In compliance with the provisions of the Federal Water Pollution Control Act, as amended,
(33 U.S.C. 1251 et. seq; the "Act"),

Diamond Shamrock Corporation

is authorized to discharge from a facility located at

Berry Avenue at Route 17
Carlstadt, Bergen County,
New Jersey

to receiving waters named

Berry's Creek

in accordance with effluent limitations, monitoring requirements and other conditions set forth
in Parts I, II, and III hereof.

This permit shall become effective on June 30, 1974.

This permit and the authorization to discharge shall expire at midnight, June 30, 1979.

Signed this 31st day of Aug, 1974

By authority of Gerald M. Hansler, P.E.
(Regional Administrator)

Richard A. Flye, Chief
Water Enforcement Branch
Enforcement and Regional
Counsel Division

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning June 30, 1974 and lasting through June 30, 1975, the permittee is authorized to discharge from outfall serial number 001.

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations				Monitoring Requirements	
	net kg/day (lbs/day)		Other Units (Specify)		Measurement Frequency	Sample Type
	Daily Avg	Daily Max	Daily Avg	Daily Max		
Flow—m ³ /Day (MGD)	—	—	—	—	1/month	grab
Temperature °C(°F)						
Winter			15(59)	24(75)	1/month	grab
Summer			27(81)	35(95)	1/month	grab
BOD ₅	500(1100)				1/month	24 hr. composit
Total Suspended Solids	191(420)				1/month	24 hr. composit
Zinc-Total	4(9)				1/month	24 hr. composit

The pH shall not be less than 6.0 standard units nor greater than 10.5 standard units and shall be monitored once per month. The sample type for this parameter shall be grab.

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location:
At outfall serial number 001..

WP-3-4

Permit No. NJ 000275

A. 2. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning July 1, 1975 and lasting through June 30, 1979, the permittee is authorized to discharge from outfall(s) serial number(s) 001.

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations - Net				Monitoring Requirements	
	kg/day(lbs/day)		Other Units(Specify)		Measurement Frequency	Sample Type
	Daily Avg	Daily Max	Daily Avg	Daily Max		
Flow-m ³ /Day (MGD)	---	---	---	---	Continuous	---
Temperature, °C(°F)						
winter	---	---	15 (59)	24 (75)	Monthly	grab
summer	---	---	27 (81)	35 (95)	Monthly	grab
BOD ₅	363 (800)	726 (1600)	---	---	Monthly	24 hr. cc
Total Suspended Solids	303 (667)	605 (1334)	---	---	Monthly	24 hr. cc
Zinc - Total	6 (13.3)	12 (26.7)	---	---	Monthly	24 hr. cc

The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored monthly. The sample type for this parameter shall be grab.

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): At outfall serial number 001.

NOTE: Pages 3 & 4 of original permit were amended on July 9, 1976 to these conditions.

B. SCHEDULE OF COMPLIANCE

1. The permittee shall achieve compliance with the effluent limitations specified in Condition A.2. for discharges in accordance with the following schedule:

Report progress of construction of pretreatment system and tie-in to municipal treatment plant - 6 months from EDP.

The permittee shall cease all discharges, except non-contact and contact cooling waters, to the navigable waters of the United States, and shall achieve compliance with the effluent limitations specified in Condition A.2. by July 1, 1975.

NOTE: Pages 3 & 4 of the original permit were amended on July 9, 1974 to these conditions.

2. No later than 14 calendar days following a date identified in the above schedule of compliance, the permittee shall submit either a report of progress or, in the case of specific actions being required by identified dates, a written notice of compliance or noncompliance. In the latter case, the notice shall include the cause of noncompliance, any remedial actions taken, and the probability of meeting the next scheduled requirement.

All reports, plans and/or specifications that propose new or modified waste treatment and/or disposal facilities must be approvable, and signed and sealed by a professional engineer licensed to practice in the State in which the facilities are to be built.

3. The United States Army Corps of Engineers conducts maintenance dredging of navigable waters and their tributaries pursuant to certain federal statutes. The permittee should be aware of its possible responsibilities under the maintenance dredging program. Under these laws, any person, firm or other entity discharging suspended solids into a navigable waterway of the United States, or tributary thereof, which contribute to the necessity for maintenance dredging of that waterway may be required to participate in the maintenance dredging program.

C. MONITORING AND REPORTING**1. Representative Sampling**

Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge.

2. Reporting

Monitoring results obtained during the previous 3 months shall be summarized for each month or quarter (as applicable) and reported on a Discharge Monitoring Report Form (EPA No. 3320-1), postmarked no later than the 28th day of the month following the completed reporting period. The first report is due on October 28, 1974. Duplicate signed copies of these, and all other reports required herein, shall be submitted to the Regional Administrator and the State at the following addresses:

Gerald M. Hansler, P.E.
Regional Administrator, Region II
U.S. Environmental Protection Agency
26 Federal Plaza
New York, New York 10007
ATTN: Permits Administration
Branch

Director
Division of Water Resources
New Jersey Department of Environmental
Protection
Labor and Industry Building
P.O. Box 1390
Trenton, New Jersey 08625.

3. Definitions

- a. The "daily average" discharge means the total discharge by weight during a calendar month divided by the number of days in the month that the production or commercial facility was operating. Where less than daily sampling is required by this permit, the daily average discharge shall be determined by the summation of all the measured daily discharges by weight divided by the number of days during the calendar month when the measurements were made.
- b. The "daily maximum" discharge means the total discharge by weight during any calendar day.

4. Test Procedures

Test procedures for the analysis of pollutants shall conform to regulations published pursuant to Section 304(g) of the Act, under which such procedures may be required.

5. Recording of Results

For each measurement or sample taken pursuant to the requirements of this permit, the permittee shall record the following information:

- a. The exact place, date, and time of sampling;
- b. The dates the analyses were performed;
- c. The person(s) who performed the analyses;

- d. The analytical techniques or methods used; and
- e. The results of all required analyses.

6. *Additional Monitoring by Permittee*

If the permittee monitors any pollutant at the location(s) designated herein more frequently than required by this permit, using approved analytical methods as specified above, the results of such monitoring shall be included in the calculation and reporting of the values required in the Discharge Monitoring Report Form (EPA No. 3320-1). Such increased frequency shall also be indicated.

7. *Records Retention*

All records and information resulting from the monitoring activities required by this permit including all records of analyses performed and calibration and maintenance of instrumentation and recordings from continuous monitoring instrumentation shall be retained for a minimum of three (3) years, or longer if requested by the Regional Administrator or the State water pollution control agency.

A. MANAGEMENT REQUIREMENTS**1. *Change in Discharge***

All discharges authorized herein shall be consistent with the terms and conditions of this permit. The discharge of any pollutant identified in this permit more frequently than or at a level in excess of that authorized shall constitute a violation of the permit. Any anticipated facility expansions, production increases, or process modifications which will result in new, different, or increased discharges of pollutants must be reported by submission of a new NPDES application or, if such changes will not violate the effluent limitations specified in this permit, by notice to the permit issuing authority of such changes. Following such notice, the permit may be modified to specify and limit any pollutants not previously limited.

2. *Noncompliance Notification*

If, for any reason, the permittee does not comply with or will be unable to comply with any daily maximum effluent limitation specified in this permit, the permittee shall provide the Regional Administrator and the State with the following information, in writing, within five (5) days of becoming aware of such condition:

- a. A description of the discharge and cause of noncompliance; and
- b. The period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate and prevent recurrence of the noncomplying discharge.

3. *Facilities Operation*

The permittee shall at all times maintain in good working order and operate as efficiently as possible all treatment or control facilities or systems installed or used by the permittee to achieve compliance with the terms and conditions of this permit.

4. *Adverse Impact*

The permittee shall take all reasonable steps to minimize any adverse impact to navigable waters resulting from noncompliance with any effluent limitations specified in this permit, including such accelerated or additional monitoring as necessary to determine the nature and impact of the noncomplying discharge.

5. *Bypassing*

Any diversion from or bypass of facilities necessary to maintain compliance with the terms and conditions of this permit is prohibited, except (i) where unavoidable to prevent loss of life or severe property damage, or (ii) where excessive storm drainage or runoff would damage any facilities necessary for compliance with the effluent limitations and prohibitions of this permit. The permittee shall promptly notify the Regional Administrator and the State in writing of each such diversion or bypass.

6. Removed Substances

Solids, sludges, filter backwash, or other pollutants removed in the course of treatment or control of wastewaters shall be disposed of in a manner such as to prevent any pollutant from such materials from entering navigable waters.

7. Power Failures

In order to maintain compliance with the effluent limitations and prohibitions of this permit, the permittee shall either:

- a. In accordance with the Schedule of Compliance contained in Part I, provide an alternative power source sufficient to operate the wastewater control facilities;

or, if such alternative power source is not in existence, and no date for its implementation appears in Part I,

- b. Halt, reduce or otherwise control production and/or all discharges upon the reduction, loss, or failure of the primary source of power to the wastewater control facilities.

B. RESPONSIBILITIES**1. Right of Entry**

The permittee shall allow the head of the State water pollution control agency, the Regional Administrator, and/or their authorized representatives, upon the presentation of credentials:

- a. To enter upon the permittee's premises where an effluent source is located or in which any records are required to be kept under the terms and conditions of this permit; and
- b. At reasonable times to have access to and copy any records required to be kept under the terms and conditions of this permit; to inspect any monitoring equipment or monitoring method required in this permit; and to sample any discharge of pollutants.

2. Transfer of Ownership or Control

In the event of any change in control or ownership of facilities from which the authorized discharges emanate, the permittee shall notify the succeeding owner or controller of the existence of this permit by letter, a copy of which shall be forwarded to the Regional Administrator and the State water pollution control agency.

3. Availability of Reports

Except for data determined to be confidential under Section 308 of the Act, all reports prepared in accordance with the terms of this permit shall be available for public

inspection at the offices of the State water pollution control agency and the Regional Administrator. As required by the Act, effluent data shall not be considered confidential. Knowingly making any false statement on any such report may result in the imposition of criminal penalties as provided for in Section 309 of the Act.

4. *Permit Modification*

After notice and opportunity for a hearing, this permit may be modified, suspended, or revoked in whole or in part during its term for cause including, but not limited to, the following:

- a. Violation of any terms or conditions of this permit;
- b. Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts; or
- c. A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge.

5. *Toxic Pollutants*

Notwithstanding Part II, B-4 above, if a toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is established under Section 307(a) of the Act for a toxic pollutant which is present in the discharge and such standard or prohibition is more stringent than any limitation for such pollutant in this permit, this permit shall be revised or modified in accordance with the toxic effluent standard or prohibition and the permittee so notified.

6. *Civil and Criminal Liability*

Except as provided in permit conditions on "Bypassing" (Part II, A-5) and "Power Failures" (Part II, A-7), nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance.

7. *Oil and Hazardous Substance Liability*

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under Section 311 of the Act.

8. *State Laws*

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable State law or regulation under authority preserved by Section 510 of the Act.

9. *Property Rights*

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

10. *Severability*

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

PART III

OTHER REQUIREMENTS

1. Net - the poundage contained in the discharge, less the poundage contained in the surface water body intake source over the same period of time.

1. The intake source must be the same water body that is being discharged to.

2. In cases where the surface water body intake source is pre-treated for the removal of pollutants, the intake poundage to be used in calculating the net, is that poundage contained after the pretreatment steps.

2. Composite - a combination of individual (or continuously taken) samples obtained at regular intervals over the entire discharge day. The volume of each sample shall be proportional to the discharge flow rate. For a continuous discharge, a minimum of 24 individual grab samples (at hourly intervals) shall be collected and combined to constitute a 24-hour composite sample. For intermittent discharges of 4-8 hours duration, grab samples shall be taken at a minimum of 30 minute intervals. For intermittent discharges of less than 4 hours duration grab samples shall be taken at a minimum of 15 minute intervals.

3. Gross - the poundage contained in the discharge. (Gross applies when the intake source is a municipal or private water supply, ground water, or a surface water body other than the one being discharged to.)

4. Grab - An individual sample collected in less than 15 minutes.

NPDES PERMIT PROGRAM

The Federal Water Pollution Control Act (FWPCA), also known as "Public Law 92-500" or simply "The Act," was enacted by Congress in 1972. The objectives of this Act was a comprehensive effort to restore and maintain the integrity of the Nation's waters.

An essential part of this Act was the establishment of a new National Permit System called the "National Pollutant Discharge Elimination System (NPDES). Under this system a NPDES permit must be obtained to discharge any pollutants into the Nation's waters. Any discharger who had not received a permit or submitted an application under the old Refuse Act Permit Program administered by the U.S. Army Corps of Engineers, was required to do so by April 16, 1973.

Although the States retain primary responsibility for water pollution control, they must now do so within the framework of the Federal Water Pollution Control Act. The Federal EPA is authorized to both issue and enforce permits however the EPA is required to turn over permit - issuing authority to a State if the State so requests and if its program meets the Federal requirements. As of this writing, the State of New Jersey has not assumed the NPDES permit program. Before a NPDES permit can be issued by the EPA, however, the State in which the discharge originates, must certify that the discharge will comply with the Act and any effluent limitations or other requirements of State law.

The NPDES permit is a legal document. Discharging without a permit or violating permit conditions may result in fines of up to \$10,000 a day. Willful or negligent violations could be fined up to \$25,000 a day and imprisonment for one year for the first offense and up to \$50,000 a day and imprisonment for two years for subsequent violations.

IMPORTANT PARTS OF NPDES PERMIT

- 1) Plant Changes - If plant changes are planned which would affect the wastewater discharged, it may be necessary to notify or reapply for a new permit as follows:

- A plant change which does not change the discharge requires no action.
- A plant change which changes the discharge but does not exceed the Permit effluent limitations requires that the permit issuing authority be notified.
- A plant change which changes the discharge and the Permit effluent limitations are exceeded requires that a new Permit Application be submitted.

- 2) Self Monitoring Reports - Effluent monitoring reports must be completed each month and submitted quarterly to the State and EPA. All monitoring requirements including sampling and analyses should be completed by plant personnel with the assistance of the Regional Environmental Control Office. All monitoring data should be submitted to the Regional Environmental Control Office each month. The required Self Monitoring Reports will be prepared and submitted by the Regional Environmental Control Office.

NOTE: If, for any reason, the plant does not comply with any daily maximum effluent limitation specified in the permit, the Regional Administrator and the State must be notified in writing within 5 days of becoming aware of such conditions.

The Regional Environmental Control Office shall make the required notification to the agencies. It is, therefore, very important that plant personnel immediately notify the Regional Office of any noncompliance.

- 3) All records and information resulting from monitoring activities, analyses performed and calibration of monitoring instrumentation must be retained for a minimum of 3 years. These records should be available for inspection by authorized local, State and Federal officials.

APR 30 1979

(DO NOT USE)

Company Name: Diamond Shamrock Corporation
 Division/Subsidiary: Process Chem Division
 Facility Name: Carlstadt Plant
 Site Name: Diamond Shamrock Corporation

9. Components (or characteristics) of process waste from this facility disposed at site: (1=present in waste; 2=not present in waste; 9=don't know)

FILL IN EVERY BLOCK SPACE

Acid solutions, with pH < 3	2	(10)
pickling liquor	2	(11)
metal plating waste	2	(12)
circuit etchings	2	(13)
inorganic acid manufacture	2	(14)
organic acid manufacture	2	(15)
Base solutions, with pH > 12	2	(16)
caustic soda manufacture	2	(17)
nylon and similar polymer generation	2	(18)
scrubber residual	2	(19)
Heavy metals & trace metals (bonded organically & inorganically)	1	(20)
arsenic, selenium, antimony	2	(21)
mercury	2	(22)
iron, manganese, magnesium	2	(23)
zinc, cadmium, copper, chromium (trivalent)	1	(24)
chromium (hexavalent)	2	(25)
lead	2	(26)
Radioactive residues, > 50 pico curies/gram	2	(27)
uranium residuals & residuals for UF ₆ recycling	2	(28)
lathanide series elements and rare earth salts	2	(29)
phosphate slag	2	(30)
thorium	2	(31)
radium	2	(32)
other alpha, beta & gamma emitters	2	(33)
Organics	1	(34)
insecticides & intermediates	2	(35)
herbicides & intermediates	2	(36)
fungicides & intermediates	2	(37)
rodenticides & intermediates	2	(38)
halogenated aliphatics	2	(39)
halogenated aromatics	2	(40)
acrylates & latex emulsions	2	(41)
PCB/PBB's	2	(42)
amides, amines, imides	2	(43)
plastizers	2	(44)
resins	1	(45)
elastomers	2	(46)
solvents polar (except water)	2	(47)
carbontetrachloride	2	(48)
trichloroethylene	2	(49)
other solvents nonpolar	2	(50)
solvents halogenated aliphatic	2	(51)
solvents halogenated aromatic	2	(52)
oils and oil sludges	2	(53)
esters and ethers	2	(54)
alcohols	2	(55)
ketones & aldehydes	2	(56)
dioxins	2	(57)
Inorganics	1	(58)
salts	2	(59)
mercaptans	2	(60)
Misc	2	(61)
pharmaceutical wastes	2	(62)
paints & pigments	2	(63)
catalysts (eg. vanadium, platinum, palladium)	2	(64)
asbestos	2	(65)
shock sensitive wastes (eg. nitrated toluenes)	2	(66)
air water reactive wastes (eg. P ₂ , aluminum chloride)	2	(67)
wastes with flash point below 100° F	2	(68)

APR 30 1973

(DO NOT USE)

COMPLETE THIS FORM FOR EVERY SITE (INCLUDING THE LOCATION OF THIS FACILITY AS ONE SITE) USED FOR THE DISPOSAL OF PROCESS WASTES GENERATED BY THIS FACILITY SINCE 1950.

Company Name: Diamond Shamrock Corporation Division/Subsidiary: Process Chem Div.

Facility Name: Carlstadt Plant

Name of Site: Diamond Shamrock Corp

Address of Site: Berry Ave. at Route 17
no. street

Carlstadt New Jersey 07072
city state zip code

Name of Owner (while used by facility): Diamond Shamrock Corporation

Address: Same as above
no. street

city state zip code

Current Owner (if different from above):

Address: no. street

city state zip code

1. Location (1= the property on which facility is located; 2= off-site)..... ☒ (10)
2. Ownership at time of use (1= company ownership; 2=private but not company ownership) 3=public ownership; 9=don't know) ☒ (11)
3. Current status (1= closed; 2= still in use; 9=don't know) ☒ (12)
IF CLOSED, specify year closed 1971 (13-14)
4. Year first used for process waste from this facility 1971 (15-16)
5. Year last used for process waste from this facility (enter "79" if still in use) 1971 (17-18)
6. Total amount of process waste from this facility disposed at site:
USE TONS ONLY IF POSSIBLE: thousand gallons (19-26)
Right justify response hundred tons 13510 (27-33)
thousand cubic yards (34-41)
7. Specify type(s) of disposal method(s) used at site and whether method is still in use (1=currently in use; 2=no longer in use; 3=never used; 9=don't know)
landfill, mono industrial waste ☒ (42)
landfill, mixed industrial waste ☒ (43)
landfill, drummed waste ☒ (44)
landfill, municipal refuse co-disposed ... ☒ (45)
pits/ponds/lagoons ☒ (46)
deep well injection ☒ (47)
land farming ☒ (48)
incineration ☒ (49)
treatment (eg. neutralizing)..... ☒ (50)
reprocessing/recycling ☒ (51)
other (specify) ☒ (52)
8. Users of this site (1=this facility; 2=this facility and other company facilities only; 3=this company and others; 9=don't know) ☒ (53)

LIST NAMES AND ADDRESSES OF OTHER KNOWN USERS BELOW

FINAL

APR 30 1979

1 1 1 1 1 (1-5)
(DO NOT USE)Eckhardt
Survey

FORM A: GENERAL FACILITY INFORMATION

Company Name: Diamond Shamrock Corporation
Division/Subsidiary: Process Chemical Div.
Facility Name: Carlstadt Plant
Address: Berry Avenue at Route 17
No. Street
Carlstadt New Jersey 07072
City State Zip Code
Name of Person Completing Form: Gerald A. Kunze, Jr.
Position: Process Engineer
Phone Number: (201) 933-5222 (Ext. 215)

1. Year Facility Opened 19 21 (10-11)
2. Primary SIC Code : 2869 (12-15)
3. Estimate the total amounts of process wastes (excluding wastes sold for use) generated by this facility during 1978:
USE ONLY TONS IF POSSIBLE - right justify response
thousand gallons (16-24)
hundred tons 14 (25-32)
thousand cubic yards (33-41)
4. Estimate (in whole percents) how these process wastes generated in 1978 were disposed of:
in landfill 90 (42-44)
in pit/pond/lagoon (45-47)
in deep well (48-50)
incinerated 3 (51-53)
reprocessed/recycled (54-56)
evaporated (57-59)
unknown 7 (60-62)
other (Specify Neutralized) (63-65)
5. What is the total number of known sites (including disposal on the property where this facility is located as one site) that have been used for the disposal of process wastes from this facility since 1950? 7 (66-68)

COMPLETE ONE FORM "B" FOR EACH OF THE SITES

6. Have any of the process wastes generated at this facility been hauled (removed) from this facility for disposal? (Yes=1; no=2) 1 (69)

IF YES, COMPLETE FORM "C"

7. Do you know the disposal site locations of all of the process waste hauled from your facility since 1950? (Yes=1; no=2) 2 (70)

IF NO, COMPLETE ONE FORM "D" FOR EACH FIRM OR CONTRACTOR WHO TOOK WASTE TO AN UNKNOWN LOCATION

8. Specify the earliest year represented by information from company or facility records supplied on this and other forms 19 75 (71-72)
9. Specify the earliest year represented by information from employee knowledge supplied on this and other forms 19 65 (73-74)

APR 20 1970

(DO NOT USE)

COMPLETE THIS FORM FOR EVERY SITE (INCLUDING THE LOCATION OF THIS FACILITY AS ONE SITE) USED FOR THE DISPOSAL OF PROCESS WASTES GENERATED BY THIS FACILITY SINCE 1950.

Company Name: Diamond Shamrock Corporation Division/Subsidiary: Process Chem Div.
Facility Name: Carlstadt Plant
Name of Site: Chemical Control Corp.
Address of Site: 23 South Front St.
no. street

Elizabeth New Jersey
city state zip code

Name of Owner (while used by facility): Chemical Control Corporation
Address: 23 South Front Street
no. street

Elizabeth New Jersey
city state zip code

Current Owner (if different from above): _____

Address: _____
no. street

_____ city state zip code

1. Location (1= the property on which facility is located; 2= off-site)..... 2 (10)
2. Ownership at time of use (1= company ownership; 2=private but not company ownership) 3=public ownership; 9=don't know) 2 (11)
3. Current status (1= closed; 2= still in use; 9=don't know) 1 (12)
- IF CLOSED, specify year closed 1979 (13-14)
4. Year first used for process waste from this facility 1971 (15-16)
5. Year last used for process waste from this facility (enter "79" if still in use) 1971 (17-18)
6. Total amount of process waste from this facility disposed at site:
USE TONS ONLY IF POSSIBLE: thousand gallons (19-26)
Right justify response hundred tons (27-33)
thousand cubic yards (34-41)
7. Specify type(s) of disposal method(s) used at site and whether method is still in use (1=currently in use; 2=no longer in use; 3=never used; 9=don't know) (80 Tons)
- landfill, mono industrial waste 9 (42)
- landfill, mixed industrial waste 9 (43)
- landfill, drummed waste 9 (44)
- landfill, municipal refuse co-disposed ... 3 (45)
- pits/ponds/lagoons 3 (46)
- deep well injection 3 (47)
- land farming 3 (48)
- incineration 1 (49)
- treatment (eg. neutralizing)..... 9 (50)
- reprocessing/recycling 1 (51)
- other (specify) 9 (52)
8. Users of this site (1=this facility; 2=this facility and other company facilities only; 3=this company and others; 9=don't know) 3 (53)

LIST NAMES AND ADDRESSES OF OTHER KNOWN USERS BELOW

Company Name: Diamond Shamrock Corporation

Division/Subsidiary: Process Chem Div.

Facility Name: Carlstadt Plant

Site Name: Chemical Control Corporation

APR 30 1979

(DO NOT USE)

9. Components (or characteristics) of process waste from this facility disposed at site: (1=present in waste; 2=not present in waste; 9=don't know)

FILL IN EVERY BLOCK SPACE

Acid solutions, with pH < 3	1	(10)
pickling liquor	2	(11)
metal plating waste	2	(12)
circuit etchings	2	(13)
inorganic acid manufacture	2	(14)
organic acid manufacture	1	(15)
Base solutions, with pH > 12	1	(16)
caustic soda manufacture	2	(17)
nylon and similar polymer generation	2	(18)
scrubber residual	2	(19)
Heavy metals & trace metals (bonded organically & inorganically)	2	(20)
arsenic, selenium, antimony	2	(21)
mercury	2	(22)
iron, manganese, magnesium	2	(23)
zinc, cadmium, copper, chromium (trivalent)	2	(24)
chromium (hexavalent)	2	(25)
lead	2	(26)
Radioactive residues, > 50 pico curies/gram	2	(27)
uranium residuals & residuals for UF ₆ recycling	2	(28)
lanthanide series elements and rare earth salts	2	(29)
phosphate slag	2	(30)
thorium	2	(31)
radium	2	(32)
other alpha, beta & gamma emitters	2	(33)
Organics	1	(34)
insecticides & intermediates	2	(35)
herbicides & intermediates	2	(36)
fungicides & intermediates	2	(37)
rodenticides & intermediates	2	(38)
halogenated aliphatics	2	(39)
halogenated aromatics	2	(40)
acrylates & latex emulsions	2	(41)
PCB/PBB's	2	(42)
amides, amines, imides	1	(43)
plastizers	2	(44)
resins	1	(45)
elastomers	1	(46)
solvents polar (except water)	2	(47)
carbon tetrachloride	2	(48)
trichloroethylene	2	(49)
other solvents nonpolar	1	(50)
solvents halogenated aliphatic	2	(51)
solvents halogenated aromatic	2	(52)
oils and oil sludges	1	(53)
esters and ethers	2	(54)
alcohols	2	(55)
ketones & aldehydes	2	(56)
dioxins	2	(57)
Inorganics	1	(58)
salts	1	(59)
mercaptans	2	(60)
Misc	2	(61)
pharmaceutical wastes	2	(62)
paints & pigments	2	(63)
catalysts (eg. vanadium, platinum, palladium)	2	(64)
asbestos	2	(65)
shock sensitive wastes (eg. nitrated toluenes)	2	(66)
air water reactive wastes (eg. P ₂ , aluminum chloride)	2	(67)
wastes with flash point below 100° F	2	(68)

COMPLETE THIS FORM FOR EVERY SITE (INCLUDING THE LOCATION OF THIS FACILITY AS ONE SITE) USED FOR THE DISPOSAL OF PROCESS WASTES GENERATED BY THIS FACILITY SINCE 1950.

Company Name: Diamond Shamrock Corporation Division/Subsidiary: Process Chem Div.
Facility Name: Carlstadt Plant
Name of Site: Kearny Municipal Landfill
Address of Site:

no. street

Kearny New Jersey
city state zip code

Name of Owner (while used by facility): Municipal Sanitary Landfill Authority

Address: 1500 Harrison Avenue
no. street

Kearny New Jersey 07032
city state zip code

Current Owner (if different from above):

Address: no. street

city state zip code

1. Location (1= the property on which facility is located; 2= off-site)..... 2 (10)
2. Ownership at time of use (1= company ownership; 2=private but not company ownership) 3=public ownership; 9=don't know) 3 (11)
3. Current status (1= closed; 2= still in use; 9=don't know) 2 (12)
IF CLOSED, specify year closed 19 7 (13-14)
4. Year first used for process waste from this facility 19 7 (15-16)
5. Year last used for process waste from this facility (enter "79" if still in use) 19 7 (17-18)
6. Total amount of process waste from this facility disposed at site:
USE TONS ONLY IF POSSIBLE: thousand gallons 1 1 1 1 1 1 1 1 1 1 (19-26)
Right justify response hundred tons 1 1 1 1 1 1 1 1 1 1 8 5 (27-33)
thousand cubic yards 1 1 1 1 1 1 1 1 1 1 (34-41)
7. Specify type(s) of disposal method(s) used at site and whether method is still in use (1=currently in use; 2=no longer in use; 3=never used; 9=don't know)
landfill, mono industrial waste 9 (42)
landfill, mixed industrial waste 9 (43)
landfill, drummed waste 3 (44)
landfill, municipal refuse co-disposed ... 9 (45)
pits/ponds/lagoons 3 (46)
deep well injection 3 (47)
land farming 3 (48)
incineration 3 (49)
treatment (eg. neutralizing)..... 3 (50)
reprocessing/recycling 3 (51)
other (specify) 3 (52)
8. Users of this site (1=this facility; 2=this facility and other company facilities only; 3=this company and others; 9=don't know) 3 (53)

LIST NAMES AND ADDRESSES OF OTHER KNOWN USERS BELOW

APR 30 1979

(DO NOT USE)

Company Name: Diamond Shamrock CorporationDivision/Subsidiary: Process Chem Div.Facility Name: Carlstadt PlantSite Name: Kearny Municipal Landfill

9. Components (or characteristics) of process waste from this facility disposed at site: (1=present in waste; 2=not present in waste; 9=don't know)

FILL IN EVERY BLOCK SPACE

Acid solutions, with pH < 3	2	(10)
pickling liquor	2	(11)
metal plating waste	2	(12)
circuit etchings	2	(13)
inorganic acid manufacture	2	(14)
organic acid manufacture	2	(15)
Base solutions, with pH > 12	2	(16)
caustic soda manufacture	2	(17)
nylon and similar polymer generation	2	(18)
scrubber residual	2	(19)
Heavy metals & trace metals (bonded organically & inorganically)	2	(20)
arsenic, selenium, antimony	2	(21)
mercury	2	(22)
iron, manganese, magnesium	2	(23)
zinc, cadmium, copper, chromium (trivalent)	2	(24)
chromium (hexavalent)	2	(25)
lead	2	(26)
Radioactive residues, > 50 pico curies/gram	2	(27)
uranium residuals & residuals for UF ₆ recycling	2	(28)
lanthanide series elements and rare earth salts	2	(29)
phosphate slag	2	(30)
thorium	2	(31)
radium	2	(32)
other alpha, beta & gamma emitters	2	(33)
Organics	1	(34)
insecticides & intermediates	2	(35)
herbicides & intermediates	2	(36)
fungicides & intermediates	2	(37)
rodenticides & intermediates	2	(38)
halogenated aliphatics	2	(39)
halogenated aromatics	2	(40)
acrylates & latex emulsions	2	(41)
PCB/PBB's	2	(42)
amides, amines, imides	2	(43)
plastizers	2	(44)
resins	1	(45)
elastomers	2	(46)
solvents polar (except water)	2	(47)
carbontetrachloride	2	(48)
trichloroethylene	2	(49)
other solvents nonpolar	2	(50)
solvents halogenated aliphatic	2	(51)
solvents halogenated aromatic	2	(52)
oils and oil sludges	2	(53)
esters and ethers	2	(54)
alcohols	2	(55)
ketones & aldehydes	2	(56)
dioxins	2	(57)
Inorganics	1	(58)
salts	1	(59)
mercaptans	2	(60)
Misc	2	(61)
pharmaceutical wastes	2	(62)
paints & pigments	2	(63)
catalysts (eg. vanadium, platinum, palladium)	2	(64)
asbestos	2	(65)
shock sensitive wastes (eg. nitrated toluenes)	2	(66)
air water reactive wastes (eg. P ₂ , aluminum chloride)	2	(67)
wastes with flash point below 100° F.	2	(68)

COMPLETE THIS FORM FOR EVERY SITE (INCLUDING THE LOCATION OF THIS FACILITY AS ONE SITE) USED FOR THE DISPOSAL OF PROCESS WASTES GENERATED BY THIS FACILITY SINCE 1950.

Company Name: Diamond Shamrock Corporation Division/Subsidiary: Process Chem Div.
Facility Name: Carlstadt Plant
Name of Site: Kin-Buc Landfill
Address of Site:

no. street

Edison New Jersey

city state zip code

Name of Owner (while used by facility): Gaess Environmental Services Co. (One of several)
Address:

no. street

Scotch Plains New Jersey 07076

city state zip code

Current Owner (if different from above):

Address:

no. street

city state zip code

1. Location (1= the property on which facility is located; 2= off-site) 2 (10)
2. Ownership at time of use (1= company ownership; 2=private but not company ownership) 3=public ownership; 9=don't know) 2 (11)
3. Current status (1= closed; 2= still in use; 9=don't know) 1 (12)
IF CLOSED, specify year closed 1978 (13-14)
..... 1975 (15-16)
4. Year first used for process waste from this facility 1975 (15-16)
5. Year last used for process waste from this facility (enter "79" if still in use) 1976 (17-18)
6. Total amount of process waste from this facility disposed at site:
USE TONS ONLY IF POSSIBLE: thousand gallons 10 (19-26)
Right justify response hundred tons 10 (27-33)
thousand cubic yards 10 (34-41)
7. Specify type(s) of disposal method(s) used at site and whether method (50 Tons) is still in use (1=currently in use; 2=no longer in use; 3=never used; 9=don't know)
landfill, mono industrial waste 9 (42)
landfill, mixed industrial waste 2 (43)
landfill, drummed waste 2 (44)
landfill, municipal refuse co-disposed ... 9 (45)
pits/ponds/lagoons 9 (46)
deep well injection 9 (47)
land farming 9 (48)
incineration 9 (49)
treatment (eg. neutralizing)..... 9 (50)
reprocessing/recycling 9 (51)
other (specify) 9 (52)
8. Users of this site (1=this facility; 2=this facility and other company facilities only; 3=this company and others; 9=don't know) 3 (53)

LIST NAMES AND ADDRESSES OF OTHER KNOWN USERS BELOW

APR 30 1979

(DO NOT USE)

Company Name: Diamond Shamrock CorporationDivision/Subsidiary: Process Chem Div.Facility Name: Carlstadt PlantSite Name: Kin-Buc Landfill

9. Components (or characteristics) of process waste from this facility disposed at site: (1=present in waste; 2=not present in waste; 9=don't know)

FILL IN EVERY BLOCK SPACE

Acid solutions, with pH < 3	9	(10)
pickling liquor	9	(11)
metal plating waste	9	(12)
circuit etchings	9	(13)
inorganic acid manufacture	9	(14)
organic acid manufacture	9	(15)
Base solutions, with pH > 12	9	(16)
caustic soda manufacture	9	(17)
nylon and similar polymer generation	9	(18)
scrubber residual	9	(19)
Heavy metals & trace metals (bonded organically & inorganically)	9	(20)
arsenic, selenium, antimony	9	(21)
mercury	9	(22)
iron, manganese, magnesium	9	(23)
zinc, cadmium, copper, chromium (trivalent)	9	(24)
chromium (hexavalent)	9	(25)
lead	9	(26)
Radioactive residues, > 50 pico curies/gram	9	(27)
uranium residuals & residuals for UF ₆ recycling	9	(28)
lathanide series elements and rare earth salts	9	(29)
phosphate slag	9	(30)
thorium	9	(31)
radium	9	(32)
other alpha, beta & gamma emitters	9	(33)
Organics	9	(34)
insecticides & intermediates	9	(35)
herbicides & intermediates	9	(36)
fungicides & intermediates	9	(37)
rodenticides & intermediates	9	(38)
halogenated aliphatics	9	(39)
halogenated aromatics	9	(40)
acrylates & latex emulsions	9	(41)
PCB/PBB's	9	(42)
amides, amines, imides	9	(43)
plastizers	9	(44)
resins	9	(45)
elastomers	9	(46)
solvents polar (except water)	9	(47)
carbontetrachloride	9	(48)
trichloroethylene	9	(49)
other solvents nonpolar	9	(50)
solvents halogenated aliphatic	9	(51)
solvents halogenated aromatic	9	(52)
oils and oil sludges	9	(53)
esters and ethers	9	(54)
alcohols	9	(55)
ketones & aldehydes	9	(56)
dioxins	9	(57)
Inorganics	9	(58)
salts	9	(59)
mercaptans	9	(60)
Misc.	9	(61)
pharmaceutical wastes	9	(62)
paints & pigments	9	(63)
catalysts (eg. vanadium, platinum, palladium)	9	(64)
asbestos	9	(65)
shock sensitive wastes (eg. nitrated toluenes)	9	(66)
air water reactive wastes (eg. P ₄ , aluminum chloride)	9	(67)
wastes with flash point below 100° F.	9	(68)

APR 30 1979

(DO NOT USE)

COMPLETE THIS FORM FOR EVERY SITE (INCLUDING THE LOCATION OF THIS FACILITY AS ONE SITE) USED FOR THE DISPOSAL OF PROCESS WASTES GENERATED BY THIS FACILITY SINCE 1950.

Company Name: Diamond Shamrock Corporation Division/Subsidiary: Process Chem Div.
Facility Name: Carlstadt Plant
Name of Site: Modern Transportation
Address of Site: 75 Jacobus Avenue
no. street

S. Kearny New Jersey 07032
city state zip code

Name of Owner (while used by facility): Same
Address: _____
no. street

_____ city state zip code

Current Owner (if different from above): _____
Address: _____
no. street

_____ city state zip code

1. Location (1= the property on which facility is located; 2= off-site)..... ☒ (10)
2. Ownership at time of use (1= company ownership; 2=private but not company ownership) 3=public ownership 9=don't know) ☒ (11)
3. Current status (1= closed; 2= still in use; 9=don't know) ☒ (12)
IF CLOSED, specify year closed 19 ☐ (13-14)
4. Year first used for process waste from this facility 19 ☒ (15-16)
5. Year last used for process waste from this facility (enter "79" if still in use) 19 ☒ (17-18)
6. Total amount of process waste from this facility disposed at site:
USE TONS ONLY IF POSSIBLE: thousand gallons (19-26)
Right justify response hundred tons (27-33)
thousand cubic yards (34-41)
7. Specify type(s) of disposal method(s) used at site and whether method is still in use (1=currently in use; 2=no longer in use; 3=never used; 9=don't know)
landfill, mono industrial waste ☒ (42)
landfill, mixed industrial waste ☒ (43)
landfill, drummed waste ☒ (44)
landfill, municipal refuse co-disposed ... ☒ (45)
pits/ponds/lagoons ☒ (46)
deep well injection ☒ (47)
land farming ☒ (48)
incineration ☒ (49)
treatment (eg. neutralizing)..... ☐ (50)
reprocessing/recycling ☒ (51)
other (specify) ☒ (52)
8. Users of this site (1=this facility; 2=this facility and other company facilities only; 3=this company and others; 9=don't know) ☒ (53)

LIST NAMES AND ADDRESSES OF OTHER KNOWN USERS BELOW

Company Name: Diamond Shamrock CorporationDivision/Subsidiary: Process Chem DivisionFacility Name: Carlstadt PlantSite Name: Modern Transportation

APR 30 1979

(DO NOT USE)

9. Components (or characteristics) of process waste from this facility disposed at site: (1=present in waste; 2=not present in waste; 9=don't know)

FILL IN EVERY BLOCK SPACE

Acid solutions, with pH < 3	2	(10)
pickling liquor	2	(11)
metal plating waste	2	(12)
circuit etchings	2	(13)
inorganic acid manufacture	2	(14)
organic acid manufacture	2	(15)
Base solutions, with pH > 12	1	(16)
caustic soda manufacture	2	(17)
nylon and similar polymer generation	2	(18)
scrubber residual	1	(19)
Heavy metals & trace metals (bonded organically & inorganically)	1	(20)
arsenic, selenium, antimony	2	(21)
mercury	2	(22)
iron, manganese, magnesium	2	(23)
zinc, cadmium, copper, chromium (trivalent)	1	(24)
chromium (hexavalent)	2	(25)
lead	2	(26)
Radioactive residues, > 50 pico curies/gram	2	(27)
uranium residuals & residuals for UF ₆ recycling	2	(28)
lanthanide series elements and rare earth salts	2	(29)
phosphate slag	2	(30)
thorium	2	(31)
radium	2	(32)
other alpha, beta & gamma emitters	2	(33)
Organics	1	(34)
insecticides & intermediates	2	(35)
herbicides & intermediates	2	(36)
fungicides & intermediates	2	(37)
rodenticides & intermediates	2	(38)
halogenated aliphatics	2	(39)
halogenated aromatics	2	(40)
acrylates & latex emulsions	2	(41)
PCB/PBB's	2	(42)
amides, amines, imides	2	(43)
plastizers	2	(44)
resins	1	(45)
elastomers	2	(46)
solvents polar (except water)	2	(47)
carbontetrachloride	2	(48)
trichloroethylene	2	(49)
other solvents nonpolar	2	(50)
solvents halogenated aliphatic	2	(51)
solvents halogenated aromatic	2	(52)
oils and oil sludges	2	(53)
esters and ethers	2	(54)
alcohols	2	(55)
ketones & aldehydes	2	(56)
dioxins	2	(57)
Inorganics	1	(58)
salts	1	(59)
mercaptans	2	(60)
Misc	2	(61)
pharmaceutical wastes	2	(62)
paints & pigments	2	(63)
catalysts (eg. vanadium, platinum, palladium)	2	(64)
asbestos	2	(65)
shock sensitive wastes (eg. nitrated toluenes)	2	(66)
air water reactive wastes (eg. P ₂ , aluminum chloride)	2	(67)
wastes with flash point below 100° F.	2	(68)

Company Name: Diamond Shamrock Corporation

APR 30 1979

(DO NOT USE)

Division/Subsidiary: Process Chem DivisionFacility Name: Carlstadt PlantSite Name: Scientific Chemical Processing

9. Components (or characteristics) of process waste from this facility disposed at site: (1=present in waste; 2=not present in waste; 9=don't know)

FILL IN EVERY BLOCK SPACE

Acid solutions, with pH < 3	2	(10)
pickling liquor	2	(11)
metal plating waste	2	(12)
circuit etchings	2	(13)
inorganic acid manufacture	2	(14)
organic acid manufacture	2	(15)
Base solutions, with pH > 12	1	(16)
caustic soda manufacture	2	(17)
nylon and similar polymer generation	2	(18)
scrubber residual	1	(19)
Heavy metals & trace metals (bonded organically & inorganically)	1	(20)
arsenic, selenium, antimony	2	(21)
mercury	2	(22)
iron, manganese, magnesium	2	(23)
zinc, cadmium, copper, chromium (trivalent)	1	(24)
chromium (hexavalent)	2	(25)
lead	2	(26)
Radioactive residues, > 50 pico curies/gram	2	(27)
uranium residuals & residuals for UF ₆ recycling	2	(28)
lathanide series elements and rare earth salts	2	(29)
phosphate slag	2	(30)
thorium	2	(31)
radium	2	(32)
other alpha, beta & gamma emitters	2	(33)
Organics	1	(34)
insecticides & intermediates	2	(35)
herbicides & intermediates	2	(36)
fungicides & intermediates	2	(37)
rodenticides & intermediates	2	(38)
halogenated aliphatics	2	(39)
halogenated aromatics	2	(40)
acrylates & latex emulsions	2	(41)
PCB/PBB's	2	(42)
amides, amines, imides	2	(43)
plastizers	2	(44)
resins	1	(45)
elastomers	2	(46)
solvents polar (except water)	2	(47)
carbontetrachloride	2	(48)
trichloroethylene	2	(49)
other solvents nonpolar	2	(50)
solvents halogenated aliphatic	2	(51)
solvents halogenated aromatic	2	(52)
oils and oil sludges	2	(53)
esters and ethers	2	(54)
alcohols	2	(55)
ketones & aldehydes	2	(56)
dioxins	2	(57)
Inorganics	1	(58)
salts	1	(59)
mercaptans	2	(60)
Misc	2	(61)
pharmaceutical wastes	2	(62)
paints & pigments	2	(63)
catalysts (eg. vanadium, platinum, palladium)	2	(64)
asbestos	2	(65)
shock sensitive wastes (eg. nitrated toluenes)	2	(66)
air water reactive wastes (eg. P ₂ , aluminum chloride)	2	(67)
wastes with flash point below 100° F.	2	(68)

APR 30 1979

COMPLETE THIS FORM FOR EVERY SITE (INCLUDING THE LOCATION OF THIS FACILITY AS ONE SITE) USED FOR THE DISPOSAL OF PROCESS WASTES GENERATED BY THIS FACILITY SINCE 1950.

Company Name: Diamond Shamrock Corporation Division/Subsidiary: Process Chem Div.
 Facility Name: Carlstadt Plant
 Name of Site: Scientific Chemical Processing
 Address of Site: 411 Wilson Avenue
 no. street

Newark New Jersey 07015
 city state zip code

Name of Owner (while used by facility): Same
 Address: _____
 no. street

_____ state zip code
 city

Current Owner (if different from above): _____
 Address: _____
 no. street

_____ state zip code
 city

1. Location (1= the property on which facility is located; 2= off-site)..... 2 (10)
2. Ownership at time of use (1= company ownership; 2=private but not company ownership) 3=public ownership; 9=don't know) 2 (11)
3. Current status (1= closed; 2= still in use; 9=don't know) 9 (12)
- IF CLOSED, specify year closed 197 (13-14)
4. Year first used for process waste from this facility 197 (15-16)
5. Year last used for process waste from this facility (enter "79" if still in use) 197 (17-18)
6. Total amount of process waste from this facility disposed at site:
 USE TONS ONLY IF POSSIBLE: thousand gallons 9 (19-26)
 Right justify response hundred tons 9 (27-33)
 thousand cubic yards 9 (34-41)
7. Specify type(s) of disposal method(s) used at site and whether method is still in use (1=currently in use; 2=no longer in use; 3=never used; 9=don't know)
 landfill, mono industrial waste 3 (42)
 landfill, mixed industrial waste 3 (43)
 landfill, drummed waste 3 (44)
 landfill, municipal refuse co-disposed ... 3 (45)
 pits/ponds/lagoons 3 (46)
 deep well injection 3 (47)
 land farming 3 (48)
 incineration 2 (49)
 treatment (eg. neutralizing)..... 9 (50)
 reprocessing/recycling 3 (51)
 other (specify) 3 (52)
8. Users of this site (1=this facility; 2=this facility and other company facilities only; 3=this company and others; 9=don't know) 3 (53)

LIST NAMES AND ADDRESSES OF OTHER KNOWN USERS BELOW

YOUR OWN COMPANY, ITS AFFILIATES & SUBSIDIARIES) WHO
REMOVED PROCESS WASTE FROM THIS FACILITY SINCE 1950 AND TOOK IT
TO AN UNKNOWN LOCATION

Company Name: Diamond Shamrock Corporation Division/Subsidiary Process Chem Div.
Facility Name: Carlstadt Plant
Name of Hauling Firm/Contractor: Dominic Toscano
Address: (no.) 143 (street) Pennington Street
(city) Newark (state) NJ (zip code)

1. Year first used 1950 (10-11)
2. Year last used (enter "79" if still in use) 1964 (12-13)
3. Total amount of process waste hauled from this facility:
USE TONS ONLY IF POSSIBLE- thousand gallons (14-21)
Right justify response hundred tons 9 (22-28)
thousand cubic yards (29-36)
4. Components (or characteristics) of process waste from this facility disposed
at site: (1=present in waste; 2=not present in waste; 9=don't know):
FILL IN EVERY BLOCK SPACE

Acid solutions, with pH < 3	2	(37)
pickling liquor	2	(38)
metal plating waste	2	(39)
circuit etchings	2	(40)
inorganic acid manufacture	2	(41)
organic acid manufacture	2	(42)
Base solutions, with pH > 12	2	(43)
caustic soda manufacture	2	(44)
nylon and similar polymer generation	2	(45)
scrubber residual	2	(46)
Heavy metals & trace metals (bonded organically & inorganically)	2	(47)
arsenic, selenium, antimony	2	(48)
mercury	2	(49)
iron, manganese, magnesium	2	(50)
zinc, cadmium, copper, chromium (trivalent)	2	(51)
chromium (hexavalent)	2	(52)
lead	2	(53)
Radioactive residues, > 50 pico curies/gram	2	(54)
uranium residuals & residuals for UF ₆ recycling	2	(55)
lanthanide series elements and rare earth salts	2	(56)
phosphate slag	2	(57)
thorium	2	(58)
radium	2	(59)
other alpha, beta & gamma emitters	2	(60)
Organics	2	(61)
insecticides & intermediates	2	(62)
herbicides & intermediates	2	(63)
fungicides & intermediates	2	(64)
rodenticides & intermediates	2	(65)
halogenated aliphatics	2	(66)
halogenated aromatics	2	(67)
acrylates & latex emulsions	2	(68)
PCB/PBB's	2	(69)
amides, amines, imides	1	(70)
plastizers	2	(71)
resins	1	(72)
elastomers	1	(73)
solvents polar (except water)	2	(74)
carbontetrachloride	2	(75)
trichloroethylene	2	(76)
other solvents nonpolar	1	(77)
solvents halogenated aliphatic	2	(78)
solvents halogenated aromatic	2	(79)
oils and oil sludges	1	(80)
esters and ethers	2	(81)
alcohols	2	(82)
ketones & aldehydes	1	(83)
dioxins	2	(84)
Inorganics	2	(85)
salts	1	(86)
mercaptans	2	(87)
Misc	2	(88)
pharmaceutical wastes	2	(89)
paints & pigments	2	(90)
catalysts (eg. vanadium, platinum, palladium)	2	(91)
asbestos	2	(92)
shock sensitive wastes (eg. nitrated toluenes)	2	(93)

APR 30 1979

PROVIDE A COMPLETE LIST OF ALL FIRMS AND INDEPENDENT CONTRACTORS,
INCLUDING THE COMPANY AND ITS AFFILIATES AND SUBSIDIARIES, USED
TO REMOVE PROCESS WASTES FROM THIS FACILITY SINCE 1950.

Company Name: Diamond Shamrock Corporation
Division/Subsidiary Process Chem Division
Facility Name: Carlstadt Plant

<u>Name of Firm or Contractor</u>	<u>Address</u>	<u>ICC # (If Known)</u>	<u>Years Used</u>
Pinto Services	41 Church Street Lodi, New Jersey 07644		29
Scientific Chemical Processing	411 Wilson Avenue Newark, New Jersey 07015		4
Modern Transportation Co.	75 Jacobus Avenue South Kearny, New Jersey 07032		2
Dominic Toscano	143 Pennington Street Newark, New Jersey		14
Chemical Control Corp.	23 South Front Street Elizabeth, New Jersey		2
Gaess Environmental	Scotch Plains, New Jersey 07076		1

Let's protect our earth



STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION



NOTICE OF AUTHORIZATION

PERMIT NO.
NJ0002798

ISSUANCE DATE
12-7-83

EFFECTIVE DATE
1-15-84

EXPIRATION DATE
1-15-89

ISSUED TO

Diamond Shamrock Corporation
1100 Superior Avenue
Cleveland, OH 44114

FOR ACTIVITY/FACILITY AT

13th Street and Berry Ave.
Carlstadt Borough
Bergen County, NJ 07072

OWNER

Diamond Shamrock Corporation
1100 Superior Avenue
Cleveland, OH 44114

ISSUING DIVISION

- ☒ Water Resources
☐ Coastal Resources
☐ Environmental Quality

TYPE OF PERMIT

NJPDES-DSW

STATUTE(S)

N.J.S.A.
58:10A-1 et seq.

APPLICATION NO.

NJ0002798

A PERMIT TO

discharge into the Berry's Creek, classified as TW-2 Waters,
in accordance with effluent limitations, monitoring require-
ments and other conditions set forth in Parts I, II, III and
IV hereof.

the Authority of:
John W. Gaston, Jr., P.E.
Director
Division of Water Resources

DEP AUTHORIZATION

Form DEP-008
7/80

THIS NOTICE MUST BE CONSPICUOUSLY DISPLAYED AT THE ACTIVITY/FACILITY SITE.

DIAMOND-SHAMROCK
(OXY PROCESS CHEMICALS, INC.)
WASTES PRODUCED

FROM REGION II RCRA NOTIFICATION

D000 Any Combination of Arsenic, Barium, Cadmium, or Chromium

F005 The following spent non-halogenated solvents: xylene, acetone, ethyl acetate, ethyl benzene, ethyl ether, methyl isobutyl ketone, n-butyl alcohol, cyclohexanone, and methanol; and the still bottoms from the recovery of these solvents.

U007 Acrylamide

U122 Formaldehyde

U165 Naphthalene

U188 Phenol

U223 Toluene Diisocyanate

FROM NOTIFICATION OF HAZARDOUS WASTE ACTIVITY

U007 Acrylamide

U122 Formaldehyde

U165 Naphthalene

U188 Phenol

U223 Toluene Dissocyanate

FROM RCRA PART A NOTIFICATION

U002 Acetone

U007 Acrylamide

U013 Asbestos

U031 N-Butyl Alcohol

U037 Chlorobenzene

U044 Chloroform

U052 Cresols

U117	Ethyl Ether
U122	Formaldehyde
U123	Formic Acid
U154	Methanol
U165	Naphthalene
U188	Phenol
U238	Urethane
U239	Xylene
D004	Arsenic
D005	Barium
D006	Cadmium
D007	Chromium
D008	Lead
D009	Mercury
D010	Selenium
D011	Silver

**CHEMICAL'S FOUND IN BERRY'S
CREEK AREA COMMON TO DIAMOND-SHAMROCK**

FROM WES REPORT

D004	Arsenic (92403, 92404, 92405, 92406)
D006	Cadmium (92403, 92404, 92405, 92406)
D007	Chromium (92403, 92404, 92405, 92406)
D008	Lead (92403, 92404, 92405, 92406)
D009	Mercury (92403, 92404, 92405, 92406)
U002	Acetone (92403, 92404, 92405, 92406)
U239	Xylene (92405, 92406)

FROM SAMPLES TAKEN 10/30/86

U002 Acetone (CS-6, CS-9, CS-8, S6-4, S9-4)
U239 1,3-Dimethylbenzene (Xylene) (CS-6)
U188 Phenol (CS-6, CS-9)
U165 Naphthalene (CS-6, CS-8, CS-9)
D004 Arsenic all samples taken on 10/30/86
D006 Cadmium all samples taken on 10/30/86
D007 Chromium all samples taken on 10/30/86
D008 Lead all samples taken on 10/30/86
D009 Mercury all samples taken on 10/30/86
F005 2-Butanone